55-1520-248-PPM

TM 55-1520-248-PPM

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 12 JANUARY 1988

OH-58D HELICOPTER

Progressive Phase Maintenance Inspection Checklist (Including 14-Day Inspection Requirements)

This copy is a reprint which includes current pages from Changes 1-2.

This manual supersedes TM 55-1520-248-PM dated 24 October 1986 and TM 55-1520-248-PMS dated 24 October 1986, including all changes.

HEADQUARTERS DEPARTMENT OF THE ARMY

D 101.11:

READEX FICHE best copy available

URGENT

NOTICE: THIS CHANGE HAS BEEN PRINTED AND DISTRIBUTED OUT OF SEQUENCE. IT SHOULD BE INSERTED IN THE MANUAL AND USED. UPON RECEIPT OF THE EARLIER SEQUENCED CHANGE INSURE A MORE CURRENT CHANGE PAGE IS NOT REPLACED WITH A LESS CURRENT PAGE.

TM 55-1520-248-PPM
C 2

CHANGE
NO. 2

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 18 July 1988

OH-58D HELICOPTER PROGRESSIVE PHASE MAINTENANCE INSPECTION CHECKLIST (INCLUDING 14-DAY INSPECTION REQUIREMENTS)

TM 55-1520-248-PPM, 12 January 1988 is changed as follows:

1. Remove and insert pages as indicated below. New or changed text material is indicated by a vertical bar in the margin. An illustration change is indicated by a miniature pointing hand.

Remove pages	Insert pages
12-17 and 12-18	12-17 and 12-18
A-5 and A-6	A-5 and A-6

2. Retain this sheet in front of the manual for reference purposes.

By Order of the Secretary of the Army:

CARL E. VUONO
General, United States Army
Chief of Staff

Official:

R. L. DILWORTH
Brigadier General, United States Army
The Adjutant General

DISTRIBUTION:
To be distributed in accordance with DA Form 12-31, PM requirements for OH-58D Helicopter, Observation.

URGENT

CHANGE }
NO. 1 }

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 15 July 1988

OH-58D HELICOPTER PROGRESSIVE PHASE MAINTENANCE INSPECTION CHECKLIST (INCLUDING 14 DAY INSPECTION REQUIREMENTS)

TM 55-1520-248-PPM, 12 January 1988 is changed as follows:

1. Remove and insert pages as indicated below. New or changed text material is indicated by a vertical bar in the margin. An illustration change is indicated by a miniature pointing hand.

Remove pages	Insert pages
15-1 and 15-2	15-1 and 15-2
15-9 and 15-10	15-9 and 15-10
30-1 and 30-2	30-1 and 30-2
30-9 and 30-10	30-9 and 30-10
A-3 and A-4	A-3 and A-4

2. Retain this sheet in front of the manual for reference purposes.

By Order of the Secretary of the Army:

CARL E. VUONO
General, United States Army
Chief of Staff

Official:

R. L. DILWORTH
Brigadier General, United States Army
The Adjutant General

DISTRIBUTION:
To be distributed in accordance with DA Form 12-31, PM requirements for OH-58D Helicopter, Observation.

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, or the DA Form 2028-2 located in the back of this manual, directly to: Commander, US Army Aviation Systems Command, ATTN: AMSAV-MPSD, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be furnished to you.

WARNING

CERTAIN INSPECTIONS ARE NON-DEFERRABLE INSPECTION REQUIREMENTS, AND THE INSPECTION INTERVALS CANNOT BE EXCEEDED. IN THE EVENT THESE INSPECTIONS CANNOT BE ACCOMPLISHED AT THE SPECIFIED INTERVAL, THE HELICOPTER CONDITION STATUS SYMBOL WILL BE IMMEDIATELY CHANGED TO A RED X.

NOTE

CHECK ALL AREAS AND COMPONENTS ACCESSED BY THE PROGRESSIVE INSPECTION FOR CORROSION. IF CORROSION IS DISCOVERED, CLEAN UP THE CORRODED AREA AND INSPECT FOR PITS AND/OR CRACKS. IF NO PITS OR CRACKS ARE FOUND TREAT THE AREA IN ACCORDANCE WITH TM43-0105 OR OTHER APPROVED CORROSION PREVENTIVE PRACTICES. IF PITS OR CRACKS NOT COVERED BY AVAILABLE TMs ARE DISCOVERED,CONTACT THE LOCAL LOGISTICS ASSISTANCE REPRESENTATIVE (LAR) FOR CORRECTIVE PROCEDURES.

NOTE

THE TERM "DAMAGE OR CONDITION" REFERS, BUT IS NOT LIMITED TO: CRACKS, DISTORTION, CHAFING, ABNORMAL WEAR, LEAKS, LOOSE OR MISSING RIVETS, TORN OR WORN WEATHER STRIPPING AND/OR DOOR SEALS, VOIDS, AND MISSING OR ILLEGIBLE STENCILS.

TABLE OF CONTENTS

Section and Area — Page No.

General Information xiv

Progressive Inspection Schedule xiv
Inspection Requirements xiv
Special Mission Aircraft/Equipment xiv
14 Day Inspection xv
Exceeding the Inspection Schedule xv
Maintenance Activities xv
Limitations xv
Special Inspections, Calendar Inspections, and Lubrication Requirements xv
Time Between Overhaul (TBO) and Retirement Life Items Check xv
Signature Sheet xv
Deferrable Inspections and Tracking xvi
Using the Inspection Checklists xvi
Initial xvii
Serial Number Check xvii
Records Check xvii
Maintenance Operational Checks xvii
Maintenance Test Flight xvii
Forms and Records Disposition xviii
Inspection Areas xviii
Oil Samples xviii

Section I 1-1

Progressive Inspection No. 1 1-1

Nose 1-2
Crew Compartment (Right Side) 1-3
Access Door and Avionics Compartment (Right Side) 1-5
Fuselage (Right Side) 1-6
Engine (Right Side) 1-7
Aft Fairing Assembly 1-9
Tailboom (Right Side) 1-10
Tailboom (Left Side) 1-11
Avionics and Aft Fuselage (Left Side) 1-12
Oil Systems (Left Side) 1-13
Engine (Left Side) 1-14
Access Door and Avionics Compartment (Left Side) 1-15
Crew Compartment (Left Side) 1-16
Pylon 1-17
Alighting Gear 1-19
Fuselage (Bottom Side) 1-20
Power On Checks 1-21
Final Inspection 1-22
Figure 6. Signature Sheet 1-23

Section II 2-1

Progressive Inspection No. 2 2-1

Nose 2-2
Crew Compartment (Right Side) 2-3
Access Door and Avionics Compartment (Right Side) 2-5
Fuselage (Right Side) 2-6
Engine (Right Side) 2-7
Aft Fairing Assembly 2-9
Tailboom (Right Side) 2-10
Tailboom (Left Side) 2-11
Avionics and Aft Fuselage (Left Side) 2-12

TABLE OF CONTENTS (Continued)

Section and Area ..... Page No.

Oil Systems (Left Side) 2-13
Engine (Left Side) 2-14
Access Door and Avionics Compartment (Left Side) 2-16
Crew Compartment (Left Side) 2-17
Pylon 2-18
Alighting Gear 2-20
Fuselage (Bottom Side) 2-21
Power On Checks 2-22
Final Inspection 2-23
Figure 6. Signature Sheet 2-24

Section III 3-1

Progressive Inspection No. 3 3-1

Nose 3-2
Crew Compartment (Right Side) 3-3
Access Door and Avionics Compartment (Right Side) 3-5
Fuselage (Right Side) 3-6
Engine (Right Side) 3-7
Aft Fairing Assembly 3-8
Tailboom (Right Side) 3-9
Tailboom (Left Side) 3-10
Avionics and Aft Fuselage (Left Side) 3-11
Oil Systems (Left Side) 3-12
Engine (Left Side) 3-13
Access Door and Avionics Compartment (Left Side) 3-14
Crew Compartment (Left Side) 3-15
Pylon 3-16

Section and Area ..... Page No.

Alighting Gear 3-18
Fuselage (Bottom Side) 3-19
Power On Checks 3-20
Final Inspection 3-21
Figure 6. Signature Sheet 3-22

Section IV 4-1

Progressive Inspection No. 4 4-1

Nose 4-2
Crew Compartment (Right Side) 4-4
Access Door and Avionics Compartment (Right Side) 4-5
Fuselage (Right Side) 4-6
Engine (Right Side) 4-7
Aft Fairing Assembly 4-9
Tailboom (Right Side) 4-10
Tailboom (Left Side) 4-11
Avionics and Aft Fuselage (Left Side) 4-13
Oil Systems (Left Side) 4-14
Engine (Left Side) 4-15
Access Door and Avionics Compartment (Left Side) 4-16
Crew Compartment (Left Side) 4-17
Pylon 4-18
Alighting Gear 4-20
Fuselage (Bottom Side) 4-21
Power On Checks 4-22
Final Inspection 4-23
Figure 6. Signature Sheet 4-24

TABLE OF CONTENTS (Continued)

Section and Area Page No.

Section V 5-1

Progressive Inspection No. 5 5-1

- Nose 5-2
- Crew Compartment (Right Side) 5-3
- Access Door and Avionics Compartment (Right Side) 5-5
- Fuselage (Right Side) 5-7
- Engine (Right Side) 5-8
- Aft Fairing Assembly 5-10
- Tailboom (Right Side) 5-11
- Tailboom (Left Side) 5-12
- Avionics and Aft Fuselage (left Side) 5-13
- Oil Systems (Left Side) 5-14
- Engine (Left Side) 5-15
- Access Door and Avionics Compartment (Left Side) 5-16
- Crew Compartment (Left Side) 5-17
- Pylon 5-18
- Alighting Gear 5-20
- Fuselage (Bottom Side) 5-21
- Power On Checks 5-22
- Final Inspection 5-23
- Figure 6. Signature Sheet 5-24

Section VI 6-1

Progressive Inspection No. 6 6-1

- Nose 6-2
- Crew Compartment (Right Side) 6-3
- Access Door and Avionics Compartment (Right Side) 6-5

Section and Area Page No.

- Fuselage (Right Side) 6-6
- Engine (Right Side) 6-7
- Aft Fairing Assembly 6-10
- Tailboom (Right Side) 6-11
- Tailboom (Left Side) 6-12
- Avionics and Aft Fuselage (Left Side) 6-13
- Oil Systems (Left Side) 6-14
- Engine (Left Side) 6-15
- Access Door and Avionics Compartment (Left Side) 6-16
- Crew Compartment (Left Side) 6-17
- Pylon 6-18
- Alighting Gear 6-20
- Fuselage (Bottom Side) 6-21
- Power On Checks 6-22
- Final Inspection 6-23
- Figure 6. Signature Sheet 6-24

Section VII 7-1

Progressive Inspection No. 7 7-1

- Nose 7-2
- Crew Compartment (Right Side) 7-3
- Access Door and Avionics Compartment (Right Side) 7-5
- Fuselage (Right Side) 7-6
- Engine (Right Side) 7-7
- Aft Fairing Assembly 7-9
- Tailboom (Right Side) 7-10
- Tailboom (Left Side) 7-11
- Avionics and Aft Fuselage (Left Side) 7-12
- Oil Systems (Left Side) 7-13

TABLE OF CONTENTS (Continued)

Section and Area **Page No.**

Engine (Left Side) 7-14
Access Door and Avionics Compartment (Left Side) 7-15
Crew Compartment (Left Side) 7-16
Pylon 7-17
Alighting Gear 7-19
Fuselage (Bottom Side) 7-20
Power On Checks 7-21
Final Inspection 7-22
Figure 6. Signature Sheet 7-23

Section VIII 8-1

Progressive Inspection No.8 8-1

Nose 8-2
Crew Compartment (Right Side) 8-3
Access Door and Avionics Compartment (Right Side) 8-5
Fuselage (Right Side) 8-6
Engine (Right Side) 8-7
Aft Fairing Assembly 8-9
Tailboom (Right Side) 8-10
Tailboom (Left Side) 8-11
Avionics and Aft Fuselage (Left Side) 8-12
Oil Systems (Left Side) 8-13
Engine (Left Side) 8-14
Access Door and Avionics Compartment (Left Side) 8-15
Crew Compartment (Left Side) 8-16
Pylon 8-17
Alighting Gear 8-19

Section and Area **Page No.**

Fuselage (Bottom Side) 8-20
Power On Checks 8-21
Final Inspection 8-22
Figure 6. Signature Sheet 8-23

Section IX 9-1

Progressive Inspection No. 9 9-1

Nose 9-2
Crew Compartment (Right Side) 9-3
Access Door and Avionics Compartment (Right Side) 9-5
Fuselage (Right Side) 9-6
Engine (Right Side) 9-7
Aft Fairing Assembly 9-9
Tailboom (Right Side) 9-10
Tailboom (Left Side) 9-11
Avionics and Aft Fuselage (Left Side) 9-12
Oil Systems (Left Side) 9-13
Engine (Left Side) 9-14
Access Door and Avionics Compartment (Left Side) 9-15
Crew Compartment (Left Side) 9-16
Pylon 9-17
Alighting Gear 9-19
Fuselage (Bottom Side) 9-20
Power On Checks 9-21
Final Inspection 9-22
Figure 6. Signature Sheet 9-23

TABLE OF CONTENTS (Continued)

Section and Area Page No.

Section X 10-1

Progressive Inspection No. 10 10-1

- Nose 10-2
- Crew Compartment (Right Side) 10-3
- Access Door and Avionics Compartment (Right Side) 10-5
- Fuselage (Right Side) 10-6
- Engine (Right Side) 10-7
- Aft Fairing Assembly 10-9
- Tailboom (Right Side) 10-10
- Tailboom (Left Side) 10-11
- Avionics and Aft Fuselage (Left Side) 10-12
- Oil Systems (Left Side) 10-13
- Engine (Left Side) 10-14
- Access Door and Avionics Compartment (Left Side) 10-15
- Crew Compartment (Left Side) 10-16
- Pylon 10-17
- Alighting Gear 10-19
- Fuselage (Bottom Side) 10-20
- Power On Checks 10-21
- Final Inspection 10-22
- Figure 5. Final Records Checklist 10-23
- Figure 6. Signature Sheet 10-24
- Figure 8. Serial Number Checklist 10-25

Section XI 11-1

Progressive Inspection No. 11 11-1

- Nose 11-2
- Crew Compartment (Right Side) 11-3
- Access Door and Avionics Compartment (Right Side) 11-5
- Fuselage (Right Side) 11-6
- Engine (Right Side) 11-7
- Aft Fairing Assembly 11-9
- Tailboom (Right Side) 11-10
- Tailboom (Left Side) 11-11
- Avionics and Aft Fuselage (Left Side) 11-12
- Oil Systems (Left Side) 11-13
- Engine (Left Side) 11-14
- Access Door and Avionics Compartment (Left Side) 11-15
- Crew Compartment (Left Side) 11-16
- Pylon 11-17
- Alighting Gear 11-19
- Fuselage (Bottom Side) 11-20
- Power On Checks 11-21
- Final Inspection 11-22
- Figure 6. Signature Sheet 11-23

Section XII 12-1

Progressive Inspection No. 12 12-1

- Nose 12-2
- Crew Compartment (Right Side) 12-3
- Access Door and Avionics Compartment (Right Side) 12-5
- Fuselage (Right Side) 12-6
- Engine (Right Side) 12-7
- Aft Fairing Assembly 12-9
- Tailboom (Right Side) 12-10
- Tailboom (Left Side) 12-11

TABLE OF CONTENTS (Continued)

Section and Area **Page No.**

- Avionics and Aft Fuselage (Left Side) 12-12
- Oil Systems (Left Side) 12-13
- Engine (Left Side) 12-14
- Access Door and Avionics Compartment (Left Side) 12-15
- Crew Compartment (Left Side) 12-16
- Pylon 12-17
- Alighting Gear 12-19
- Fuselage (Bottom Side) 12-20
- Power On Checks 12-21
- Final Inspection 12-22
- Figure 6. Signature Sheet 12-23

Section XIII 13-1

Progressive Inspection No. 13 13-1

- Nose 13-2
- Crew Compartment (Right Side) 13-3
- Access Door and Avionics Compartment (Right Side) 13-5
- Fuselage (Right Side) 13-6
- Engine (Right Side) 13-7
- Aft Fairing Assembly 13-9
- Tailboom (Right Side) 13-10
- Tailboom (Left Side) 13-11
- Avionics and Aft Fuselage (Left Side) 13-12
- Oil Systems (Left Side) 13-13
- Engine (Left Side) 13-14
- Access Door and Avionics Compartment (Left Side) 13-15
- Crew Compartment (Left Side) 13-16
- Pylon 13-17

Section and Area **Page No.**

- Alighting Gear 13-19
- Fuselage (Bottom Side) 13-20
- Power On Checks 13-21
- Final Inspection 13-22
- Figure 6. Signature Sheet 13-23

Section XIV 14-1

Progressive Inspection No. 14 14-1

- Nose 14-2
- Crew Compartment (Right Side) 14-3
- Access Door and Avionics Compartment (Right Side) 14-5
- Fuselage (Right Side) 14-6
- Engine (Right Side) 14-7
- Aft Fairing Assembly 14-9
- Tailboom (Right Side) 14-10
- Tailboom (Left Side) 14-11
- Avionics and Aft Fuselage (Left Side) 14-12
- Oil Systems (Left Side) 14-13
- Engine (Left Side) 14-14
- Access Door and Avionics Compartment (Left Side) 14-15
- Crew Compartment (Left Side) 14-16
- Pylon 14-17
- Alighting Gear 14-19
- Fuselage (Bottom Side) 14-20
- Power On Checks 14-21
- Final Inspection 14-22
- Figure 6. Signature Sheet 14-23

TABLE OF CONTENTS (Continued)

Section and Area ... Page No.

Section XV ... 15-1

Progressive Inspection No. 15 ... 15-1

- Nose ... 15-2
- Crew Compartment (Right Side) ... 15-3
- Access Door and Avionics Compartment (Right Side) ... 15-5
- Fuselage (Right Side) ... 15-6
- Engine (Right Side) ... 15-7
- Aft Fairing Assembly ... 15-9
- Tailboom (Right Side) ... 15-10
- Tailboom (Left Side) ... 15-11
- Avionics and Aft Fuselage (Left Side) ... 15-12
- Oil Systems (Left Side) ... 15-13
- Engine (Left Side) ... 15-14
- Access Door and Avionics Compartment (Left Side) ... 15-15
- Crew Compartment (Left Side) ... 15-16
- Pylon ... 15-17
- Alighting Gear ... 15-19
- Fuselage (Bottom Side) ... 15-20
- Power On Checks ... 15-21
- Final Inspection ... 15-22
- Figure 3. Maintenance Test Flight Recording Sheet ... 15-23
- Figure 4. Rotor Smoothing Record ... 15-24
- Figure 6. Signature Sheet ... 15-25

Section XVI ... 16-1

Progressive Inspection No. 16 ... 16-1

- Nose ... 16-2

Section and Area ... Page No.

- Crew Compartment (Right Side) ... 16-3
- Access Door and Avionics Compartment (Right Side) ... 16-5
- Fuselage (Right Side) ... 16-6
- Engine (Right Side) ... 16-7
- Aft Fairing Assembly ... 16-9
- Tailboom (Right Side) ... 16-10
- Tailboom (Left Side) ... 16-11
- Avionics and Aft Fuselage (Left Side) ... 16-12
- Oil Systems (Left Side) ... 16-13
- Engine (Left Side) ... 16-14
- Access Door and Avionics Compartment (Left Side) ... 16-15
- Crew Compartment (Left Side) ... 16-16
- Pylon ... 16-17
- Alighting Gear ... 16-19
- Fuselage (Bottom Side) ... 16-20
- Power On Checks ... 16-21
- Final Inspection ... 16-22
- Figure 6. Signature Sheet ... 16-23

Section XVII ... 17-1

Progressive Inspection No. 17 ... 17-1

- Nose ... 17-2
- Crew Compartment (Right Side) ... 17-3
- Access Door and Avionics Compartment (Right Side) ... 17-5
- Fuselage (Right Side) ... 17-6
- Engine (Right Side) ... 17-7
- Aft Fairing Assembly ... 17-9
- Tailboom (Right Side) ... 17-10
- Tailboom (Left Side) ... 17-11

TABLE OF CONTENTS (Continued)

Section and Area Page No.

Avionics and Aft Fuselage (Left Side) 17-12
Oil Systems (Left Side) 17-13
Engine (Left Side) 17-14
Access Door and Avionics Compartment (Left Side) 17-16
Crew Compartment (Left Side) 17-17
Pylon 17-18
Alighting Gear 17-20
Fuselage (Bottom Side) 17-21
Power On Checks 17-22
Final Inspection 17-23
Figure 6. Signature Sheet 17-24

Section XVIII 18-1

Progressive Inspection No. 18 18-1

Nose 18-2
Crew Compartment (Right Side) 18-3
Access Door and Avionics Compartment (Right Side) 18-5
Fuselage Compartment (Right Side) 18-6
Engine (Right Side) 18-7
Aft Fairing Assembly 18-9
Tailboom (Right Side) 18-10
Tailboom (Left Side) 18-11
Avionics and Aft Fuselage (Left Side) 18-12
Oil Systems (Left Side) 18-14
Engine (Left Side) 18-15
Access Door and Avionics Compartment (Left Side) 18-16
Crew Compartment (Left Side) 18-17
Pylon 18-18

Section and Area Page No.

Alighting Gear 18-20
Fuselage (Bottom Side) 18-21
Power On Checks 18-22
Final Inspection 18-23
Figure 6. Signature Sheet 18-24

Section XIX 19-1

Progressive Inspection No. 19 19-1

Nose 19-2
Crew Compartment (Right Side) 19-3
Access Door and Avionics Compartment (Right Side) 19-5
Fuselage (Right Side) 19-6
Engine (Right Side) 19-7
Aft Fairing Assembly 19-9
Tailboom (Right Side) 19-10
Tailboom (Left Side) 19-11
Avionics and Aft Fuselage (Left Side) 19-13
Oil Systems (Left Side) 19-14
Engine (Left Side) 19-15
Access Door and Avionics Compartment (Left Side) 19-16
Crew Compartment (Left Side) 19-17
Pylon 19-18
Alighting Gear 19-20
Fuselage (Bottom Side) 19-21
Power On Checks 19-22
Final Inspection 19-23
Figure 6. Signature Sheet 19-24

TABLE OF CONTENTS (Continued)

Section and Area Page No.

Section XX 20-1

Progressive Inspection No. 20 20-1

Nose 20-2
Crew Compartment (Right Side) 20-3
Access Door and Avionics Compartment (Right Side) 20-5
Fuselage (Right Side) 20-7
Engine (Right Side) 20-8
Aft Fairing Assembly 20-10
Tailboom (Right Side) 20-11
Tailboom (Left Side) 20-12
Avionics and Aft Fuselage (Left Side) 20-13
Oil Systems (Left Side) 20-14
Engine (Left Side) 20-15
Access Door and Avionics Compartment (Left Side) 20-16
Crew Compartment (Left Side) 20-17
Pylon 20-18
Alighting Gear 20-20
Fuselage (Bottom Side) 20-21
Power On Checks 20-22
Final Inspection 20-23
Figure 5. Final Records Checklist 20-24
Figure 6. Signature Sheet 20-25
Figure 8. Serial Number Checklist 20-26

Section XXI 21-1

Progressive Inspection No. 21 21-1

Nose 21-2

Section and Area Page No.

Crew Compartment (Right Side) 21-3
Access Door and Avionics Compartment (Right Side) 21-5
Fuselage (Right Side) 21-6
Engine (Right Side) 21-7
Aft Fairing Assembly 21-9
Tailboom (Right Side) 21-10
Tailboom (Left Side) 21-11
Avionics and Aft Fuselage (Left Side) 21-12
Oil Systems (Left Side) 21-13
Engine (Left Side) 21-14
Access Door and Avionics Compartment (Left Side) 21-15
Crew Compartment (Left Side) 21-16
Pylon 21-17
Alighting Gear 21-19
Fuselage (Bottom Side) 21-20
Power On Checks 21-21
Final Inspection 21-22
Figure 6. Signature Sheet 21-23

Section XXII 22-1

Progressive Inspection No. 22 22-1

Nose 22-2
Crew Compartment (Right Side) 22-3
Access Door and Avionics Compartment (Right Side) 22-5
Fuselage (Right Side) 22-6
Engine (Right Side) 22-7
Aft Fairing Assembly 22-9
Tailboom (Right Side) 22-10
Tailboom (Left Side) 22-11

TABLE OF CONTENTS (Continued)

Section and Area **Page No.**

Avionics and Aft Fuselage (Left Side) 22-12
Oil Systems (Left Side) 22-13
Engine (Left Side) 22-14
Access Door and Avionics Compartment (Left Side) 22-15
Crew Compartment (Left Side) 22-16
Pylon 22-17
Alighting Gear 22-19
Fuselage (Bottom Side) 22-20
Power On Checks 22-21
Final Inspection 22-22
Figure 6. Signature Sheet 22-23

Section XXIII 23-1

Progressive Inspection No. 23 23-1

Nose 23-2
Crew Compartment (Right Side) 23-3
Access Door and Avionics Compartment (Right Side) 23-5
Fuselage (Right Side) 23-6
Engine (Right Side) 23-7
Aft Fairing Assembly 23-9
Tailboom (Right Side) 23-10
Tailboom (Left Side) 23-11
Avionics and Aft Fuselage (Left Side) 23-12
Oil Systems (Left Side) 23-13
Engine (Left Side) 23-14
Access Door and Avionics Compartment (Left Side) 23-15
Crew Compartment (Left Side) 23-16

Section and Area **Page No.**

Pylon 23-17
Alighting Gear 23-19
Fuselage (Bottom Side) 23-20
Power On Checks 23-21
Final Inspection 23-22
Figure 6. Signature Sheet 23-23

Section XXIV 24-1

Progressive Inspection No. 24 24-1

Nose 24-2
Crew Compartment (Right Side) 24-3
Access Door and Avionics Compartment (Right Side) 24-5
Fuselage (Right Side) 24-6
Engine (Right Side) 24-7
Aft Fairing Assembly 24-9
Tailboom (Right Side) 24-10
Tailboom (Left Side) 24-11
Avionics and Aft Fuselage (Left Side) 24-12
Oil Systems (Left Side) 24-13
Engine (Left Side) 24-14
Access Door and Avionics Compartment (Left Side) 24-15
Crew Compartment (Left Side) 24-16
Pylon 24-17
Alighting Gear 24-19
Fuselage (Bottom Side) 24-20
Power On Checks 24-21
Final Inspection 24-22
Figure 6. Signature Sheet 24-23

TABLE OF CONTENTS (Continued)

Section and Area — Page No.

Section XXV 25-1

Progressive Inspection No. 25 25-1

- Nose 25-2
- Crew Compartment (Right Side) 25-3
- Access Door and Avionics Compartment (Right Side) 25-5
- Fuselage (Right Side) 25-6
- Engine (Right Side) 25-7
- Aft Fairing Assembly 25-9
- Tailboom (Right Side) 25-10
- Tailboom (Left Side) 25-11
- Avionics and Aft Fuselage (Left Side) 25-12
- Oil Systems (Left Side) 25-13
- Engine (Left Side) 25-14
- Access Door and Avionics Compartment (Left Side) 25-15
- Crew Compartment (Left Side) 25-16
- Pylon 25-17
- Alighting Gear 25-19
- Fuselage (Bottom Side) 25-20
- Power On Checks 25-21
- Final Inspection 25-22
- Figure 6. Signature Sheet 25-23

Section XXVI 26-1

Progressive Inspection No. 26 26-1

- Nose 26-2
- Crew Compartment (Right Side) 26-3
- Access Door and Avionics Compartment (Right Side) 26-5
- Fuselage (Right Side) 26-6
- Engine (Right Side) 26-7
- Aft Fairing Assembly 26-9
- Tailboom (Right Side) 26-10
- Tailboom (Left Side) 26-11
- Avionics and Aft Fuselage (Left Side) 26-12
- Oil Systems (Left Side) 26-13
- Engine (Left Side) 26-14
- Access Door and Avionics Compartment (Left Side) 26-15
- Crew Compartment (Left Side) 26-16
- Pylon 26-17
- Alighting Gear 26-19
- Fuselage (Bottom Side) 26-20
- Power On Checks 26-21
- Final Inspection 26-22
- Figure 6. Signature Sheet 26-23

Section XXVII 27-1

Progressive Inspection No. 27 27-1

- Nose 27-2
- Crew Compartment (Right Side) 27-3
- Access Door and Avionics Compartment (Right Side) 27-5
- Fuselage (Right Side) 27-6
- Engine (Right Side) 27-7
- Aft Fairing Assembly 27-9
- Tailboom (Right Side) 27-10
- Tailboom (Left Side) 27-11
- Avionics and Aft Fuselage (Left Side) 27-12
- Oil Systems (Left Side) 27-13

TABLE OF CONTENTS (Continued

Section and Area ... Page No.

Engine (Left Side) ... 27-14
Access Door and Avionics Compartment (Left Side) ... 27-15
Crew Compartment (Left Side) ... 27-16
Pylon ... 27-17
Alighting Gear ... 27-19
Fuselage (Bottom Side) ... 27-20
Power On Checks ... 27-21
Final Inspection ... 27-22
Figure 6. Signature Sheet ... 27-23

Section XXVIII ... 28-1

Progressive Inspection No. 28 ... 28-1

Nose ... 28-2
Crew Compartment (Right Side) ... 28-3
Access Door and Avionics Compartment (Right Side) ... 28-5
Fuselage (Right Side) ... 28-6
Engine (Right Side) ... 28-7
Aft Fairing Assembly ... 28-9
Tailboom (Right Side) ... 28-10
Tailboom (Left Side) ... 28-11
Avionics and Aft Fuselage (Left Side) ... 28-12
Oil Systems (Left Side) ... 28-13
Engine (Left Side) ... 28-14
Access Door and Avionics Compartment (Left Side) ... 28-15
Crew Compartment (Left Side) ... 28-16
Pylon ... 28-17
Alighting Gear ... 28-19

Section and Area ... Page No.

Fuselage (Bottom Side) ... 28-20
Power On Checks ... 28-21
Final Inspection ... 28-22
Figure 6. Signature Sheet ... 28-23

Section XXIX ... 29-1

Progressive Inspection No. 29 ... 29-1

Nose ... 29-2
Crew Compartment (Right Side) ... 29-3
Access Door and Avionics Compartment (Right Side) ... 29-5
Fuselage (Right Side) ... 29-6
Engine (Right Side) ... 29-7
Aft Fairing Assembly ... 29-9
Tailboom (Right Side) ... 29-10
Tailboom (Left Side) ... 29-11
Avionics and Aft Fuselage (Left Side) ... 29-12
Oil Systems (Left Side) ... 29-13
Engine (Left Side) ... 29-14
Access Door and Avionics Compartment (Left Side) ... 29-15
Crew Compartment (Left Side) ... 29-16
Pylon ... 29-17
Alighting Gear ... 29-19
Fuselage (Bottom Side) ... 29-20
Power On Checks ... 29-21
Final Inspection ... 29-22
Figure 6. Signature Sheet ... 29-23

TABLE OF CONTENTS (Continued)

Section and Area **Page No.**

Section XXX 30-1

Progressive Inspection No. 30 30-1

Nose 30-2
Crew Compartment (Right Side) 30-3
Access Door and Avionics Compartment (Right Side) 30-5
Fuselage (Right Side) 30-6
Engine (Right Side) 30-7
Aft Fairing Assembly 30-9
Tailboom (Right Side) 30-10
Tailboom (Left Side) 30-11
Avionics and Aft Fuselage (Left Side) 30-12
Oil Systems (Left Side) 30-13
Engine (Left Side) 30-14
Access Door and Avionics Compartment (Left Side) 30-15
Crew Compartment (Left Side) 30-16
Pylon 30-17
Alighting Gear 30-19
Fuselage (Bottom Side) 30-20
Power On Checks 30-21
Final Inspection 30-22
Figure 3. Maintenance Test Flight Recording Sheet 30-23
Figure 4. Rotor Smoothing Record 30-24
Figure 5. Final Records Checklist 30-25
Figure 6. Signature Sheet 30-26
Figure 8. Serial Number Checklist 30-27

Section and Area **Page No.**

Section XXXI 31-1

14 Day Inspection 31-1

Nose 31-2
Crew Compartment (Right Side) 31-3
Access Door and Avionics Compartment (Right Side) 31-5
Fuselage (Right Side) 31-6
Engine (Right Side) 31-7
Aft Fairing Assembly 31-8
Tailboom (Right Side) 31-9
Tailboom (Left Side) 31-10
Avionics and Aft Fuselage (Left Side) 31-11
Oil Systems (Left Side) 31-12
Engine (Left Side) 31-13
Access Door and Avionics Compartment (Left Side) 31-14
Crew Compartment (Left Side) 31-15
Pylon 31-16
Alighting Gear 31-17
Fuselage (Bottom Side) 31-18
Power On Checks 31-19
Final Inspection 31-20
Figure 6. Signature Sheet 31-21

Appendix A A-1

Inspection Requirement Maintenance Management Matrix A-1

GENERAL INFORMATION

NOTE

The OH-58D helicopter has been identified as one of the Aviation Systems that will use the Progressive Maintenance Program. It is imperative that the guidelines in these manuals are implemented as written. We recognize that other maintenance regulations and manuals may contradict the instructions in this manual, however the guidance contained in this manual will take precedence.

1-1. PROGRESSIVE INSPECTION SCHEDULE

This manual contains requirements for accomplishing Progressive Phase Maintenance (PPM) inspections of the OH-58D helicopter. Inspection requirements are distributed into 30 equalized checklist sections which together constitute a complete PPM cycle. The inspection checklists must be accomplished consecutively at 20-flight-hour intervals which are computed from the beginning of the PPM cycle, not from the last inspection checklist completed. The 20-hour interval may be extended, if necessary, up to 3 flight hours to complete the mission day as defined by the unit commander. When the interval is extended, the inspection checklist due must be completed before starting the next day's flight. Aircraft status will reflect a red dash (-) until the inspection is completed. To allow maximum scheduling flexibility, the inspection checklist may be started up to 3 flight hours prior to the inspection checklist due time. Deferrable inspection requirements (paragraph 1.2) may be performed earlier than three hours but must be performed within the 40-hour block defined by paragraph 1.2. Completion of an inspection checklist either early or late, within the above limitations, does not alter the due time for the remaining inspection checklists in the cycle. Each inspection checklist must be accomplished consecutively until all are completed, at which time the cycle is repeated, beginning with inspection checklist number 1.

1.2. INSPECTION REQUIREMENTS

The individual checklists contain nondeferrable inspection requirements which are printed in bold-faced type. The nondeferrable inspection requirements may not be transcribed to the DA Form 2408-13. To provide flexibility for maintenance scheduling, certain requirements with unique tool, manpower, or skill requirements are designated as deferrable and are printed in light-faced type. These inspection requirements should be completed when specified by the inspection checklist; however they may be completed early or deferred when necessary to meet operational requirements. An inspection requirement must be completed or deferred in its entirety. Deferred inspection requirements will be entered on the DA Form 2408-13, only with the approval and signature of the unit Maintenance Officer or a designated representative. When completed early or deferred, these requirements must be completed within a 40 hour block, IE; not more than 1 phase early (20 hours) or 1 phase late (20 hours), or the aircraft status reverts to a red X.

1.3 SPECIAL MISSION AIRCRAFT/EQUIPMENT

Inspection requirements which cannot be completed due to mission configuration, such as items that are not installed or not accessible, may be deferred until items are installed or become accessible. The inspection requirements will be recorded, on DA Form 2408-13 with a red dash (-) symbol and must be approved by the unit Maintenance Officer or designated representative.

1.4. 14 DAY INSPECTION

This manual also contains a 14 day inspection checklist. The inspection prescribed must be accomplished whenever no (zero) flight hours are accumulated or engine ground run has not been accomplished for 14 consecutive calendar days. Refer to TM 55-1520-248-23 for additional requirements for aircraft in flyable storage. Completion of a 14-day inspection does not supersede a requirement to perform a Progressive Phase Maintenance inspection; however, if a 14-day inspection is due and a Progressive Phase Maintenance inspection is performed, it is not necessary to complete a separate 14-day inspection. A 10 minute engine ground run must be performed, when a 14 day inspection is performed.

1.5. EXCEEDING THE INSPECTION SCHEDULE

Except as specified in paragraphs 1.1, 1.2, and 1.3, the inspection intervals designated herein are the maximum and shall not be exceeded except in actual operational emergencies as explained in TM 55-1500-328-25.

1.6 MAINTENANCE ACTIVITIES

The inspections prescribed by this manual will be accomplished by Aviation Unit Maintenance (AVUM) activities with assistance of Aviation Intermediate Maintenance (AVIM) and Depot Maintenance activities when required.

1.7 LIMITATIONS

The checklists do not contain instructions for repair, adjustment, or other means of rectifying conditions. Neither do they contain special tolerances, limits, nor instructions for troubleshooting to find causes for malfunctions. Such information will be obtained from the aircraft maintenance manual (TM 55-1520-248-23). Other applicable manuals are referenced in the individual inspection checklists.

1.8 SPECIAL INSPECTIONS, CALENDAR INSPECTIONS, AND LUBRICATIONS REQUIREMENTS

Special operating hour and calendar inspections specified in TM 55-1520-248-23 and those listed on the helicopter's DA Form 2408-18 shall be reviewed and accomplished in accordance with "Inspection due" requirements specified in those documents. Most of the traditional 2408-18 inspection requirements have been included in the PPM manual and will not be repeated on the 2408-18. Scheduled lubrication and oil sample requirements are included in the inspection checklists and shall be accomplished when specified.

1.9. TIME BETWEEN OVERHAUL (TBO) AND RETIREMENT LIFE ITEMS CHECK

When directed by the inspection checklist, a check will be made of components and their remaining operating hours prior to removal. The latest issue of TM 55-1520-248-23, DA PAM 738-751, and DA Form 2408-16 shall be referred to for complete listing of components and their TBO and retirement life.

1.10 SIGNATURE SHEET

The purpose of the Signature Sheet is to ensure completion of all required PPM inspection tasks in each area. Individuals who have performed the required PPM tasks will certify that all required PPM tasks have been completed by writing their initials in the block next to the applicable area and by placing a check mark at the end of the task completed. In the case where more than one person performs

PPM tasks in a particular area, the individual who is responsible for PPM inspection of that area will insure that all PPM tasks have been completed and will so certify by initialing in the area block. Persons placing their initials in the area blocks will print their name, sign their name, and place their initials on a name-line of the Signature Sheet. When completed the Signature Sheet will be attached to the current DA Form 2408-13. To determine if deficiencies/faults noted during the PPM inspection have been corrected it is necessary to review the DA Forms 2408-13 and/or DA Forms 2404 as applicable.

1.11 DEFERRABLE INSPECTIONS AND TRACKING

If a deferrable inspection requirement is entered on the DA Form 2408-13, the entry shall include the latest PPM inspection checklist number to which the requirement may be deferred i.e., 10, 20, 30. The entry must be signed by the unit Maintenance Officer or designated representative. To assist in tracking deferrable inspections when they are performed early and to prevent duplication of inspection tasks, a sample form is attached. If required it can be reproduced locally. PPM Form 1, will contain deferrable inspection requirements listed in PPM checklists. It is recommended the forms be kept by aircraft number and in the quality control section. When the deferred inspection is performed early, the person completing the inspection will enter his name/signature, the date, and aircraft hours when completed. At the completion of the PPM checklist the PPM Form 1 will be attached to the current signature sheet and DA Form 2408-13.

1.12. USING THE INSPECTION CHECKLISTS

a. This manual contains 30 individual progressive inspection checklists. Each checklist contains a unique combination of requirements and no two checklists are exactly alike. The inspection checklists must be accomplished consecutively, in numerical sequence, as directed in paragraphs 1.1, and 1.2. No checklist may be omitted and none should be accomplished more than once in an inspection cycle. These inspection checklists along with the special and conditional inspections contained in the TM-55-1520-248-23 define the complete preventive maintenance requirements for the OH-58D Helicopter.

b. Each time an inspection is due, the appropriately numbered checklist should be separated from this manual and issued to the inspection crew. At this time (if utilized) the PPM Form 1 for that aircraft should be checked and deferrable inspection requirements that were performed early should be eliminated from that PPM checklist.

(1) Space is provided on the PPM cover sheet for entering the following data:

(a) Aircraft serial number

(b) Aircraft total time

(c) Date of the inspection

(2) The checklist cover sheet provides the following information:

(a) Tools - a list of tools needed that are not found in tool kits along with special tools and test equipment.

(b) Materials - expendable materials listed by name.

(c) Parts - parts required to perform the inspection, listed by name only.

(d) Personnel Required - personnel recommended to perform the inspection identified by MOS title, without regard to quantity or skill levels. The MOS listed is the recommended MOS to accomplish the inspection checklists. The listed MOS should not be construed as the only MOS authorized to accomplish the inspection checklists.

(e) Reference - list of applicable manuals other than TM 55-1520-248-23 and 23P which relate to specific inspection tasks. The references are repeated in the text of the checklists.

(3) Specific inspection requirements maintain the same sequence number throughout the entire series of checklists; therefore, the requirement numbers will not run consecutively in any individual checklist. An Inspection Requirements Management Matrix (Appendix A) shows the occurrence of each inspection requirement throughout the entire inspection cycle.

Faults/remarks/deficiencies noted during the inspection will be entered on the current DA Form 2408-13, or DA Form 2404 in accordance with DA Pamphlet 738-751. The fault entered on DA Form 2408-13 shall be preceded by the PPM number and the inspection requirement number.

1.13. INITIAL

The person or persons that perform the specific inspection requirement shall place their initials next to the inspection requirement number. If an inspection requirement is deferred also write "deferred" next to the requirement number.

1.14. SERIAL NUMBER CHECK

When directed by the inspection checklist, a serial number verification check per DA Form 2408-16 (Aircraft Component Historical Record) shall be accomplished. Serial numbers on DA Form 2408-16 in the aircraft Historical Records shall be updated when necessary to correspond to the current serial number of the component on the aircraft. A Serial Number Checklist (Figure 8) is provided for this purpose with the appropriate inspection checklist.

1.15. RECORDS CHECK

At the completion of each inspection checklist and following the completion of any corrective actions, the Technical inspector shall verify that applicable forms and records have been properly updated. All faults found shall be entered on the DA 2408-13 prepared for that date or on DA Form 2408-14 in accordance with DA PAM 738-751. The Fault entered on DA Form 2408-13 shall be preceded by the inspection requirement number. All deferred inspection requirements shall be entered on DA Form 2408-13. At certain intervals, as directed in the inspection checklists, a more thorough inspection is required to ensure that all the forms and records are complete and accurate. A Final Records Checklist (figure 5) is provided for this purpose in the appropriate inspection checklist packages. The inspector verifying the records check shall enter his initials adjacent to the indicated form on file on the Final Records Checklist. The initials entered shall be registered on the Signature Sheet next to that person's signature.

1.16. MAINTENANCE OPERATIONAL CHECKS

After the completion of any required corrective actions to any of the components of a functional system of the helicopter, Maintenance Operational Checks (MOC) shall be performed on the system to determine the effectiveness of the maintenance actions performed and to verify the proper operation of that system. (Refer to TM 55-1520-248-23). The MOC shall be performed in accordance with TM 55-1500-328-25.

1.17. MAINTENANCE TEST FLIGHT

NOTE - The number 15 and 30 Maintenance Test Flight is nondeferrable. However, it may be performed up to 20 hours early. If it is performed early, enter it on PPM Form 1 to prevent duplicating this task.

A general maintenance test flight as defined in TM 55-1500-328-25 is required twice during an inspection cycle, following the completion of inspection checklist numbers 15 and 30, and shall be performed in accordance with TM 55-1520-248-MTF. For convenience, a Maintenance Test Flight Checksheet is provided as figure 3 and a rotor smoothing record as figure 4. Additional maintenance test flights may be performed at any time deemed necessary by the unit Maintenance Officer or to meet the requirements of TM 55-1500-328-25.

1.18. FORMS AND RECORDS DISPOSITION

The completion of each inspection checklist shall be recorded on DA Form 2408-13 as prescribed by DA PAM 738-751. The completion of each PPM cycle shall be recorded on DA Form 2408-15. The completed inspection checklist together with the Signature sheet, any additional sheets and MTF form, shall be attached to the DA Form 2408-13 and filed for the 6 month period as required by DA PAM 738-751. At the end of the 6 month period, these records shall be forwarded to:

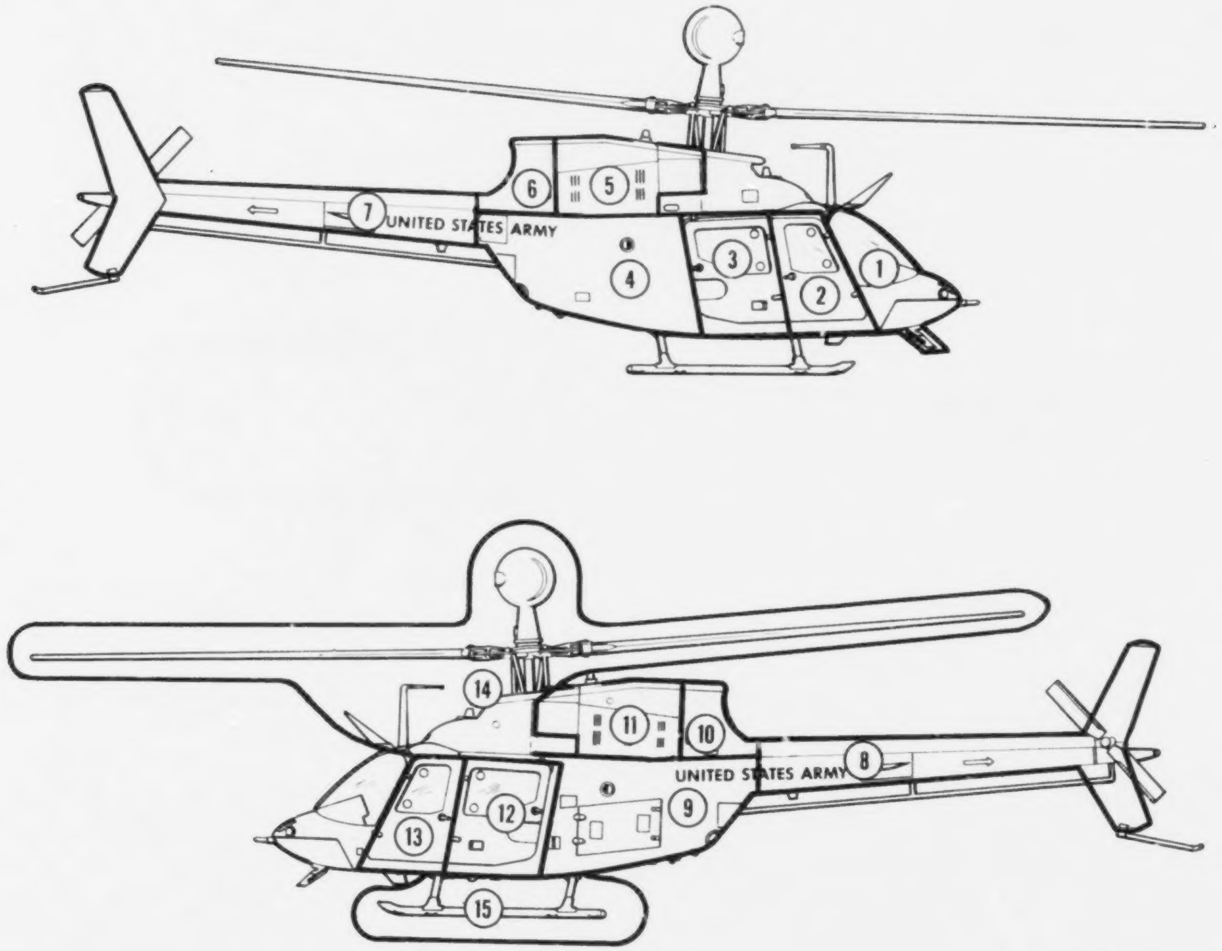
Commander, Corpus Christi Army Depot, ATTN:
AMSAV-MRR (Stop 55), Corpus Christi, TX 78419.

1.19 INSPECTION AREAS

Figure 1 reflects the inspection areas of the OH-58D helicopter. Those areas are titled as shown. Figure 2 shows the location of access doors and panels which require opening or removal when directed by the inspection checklists. When appropriate enter their removals on DA Form 2408-13, or DA Form 2404.

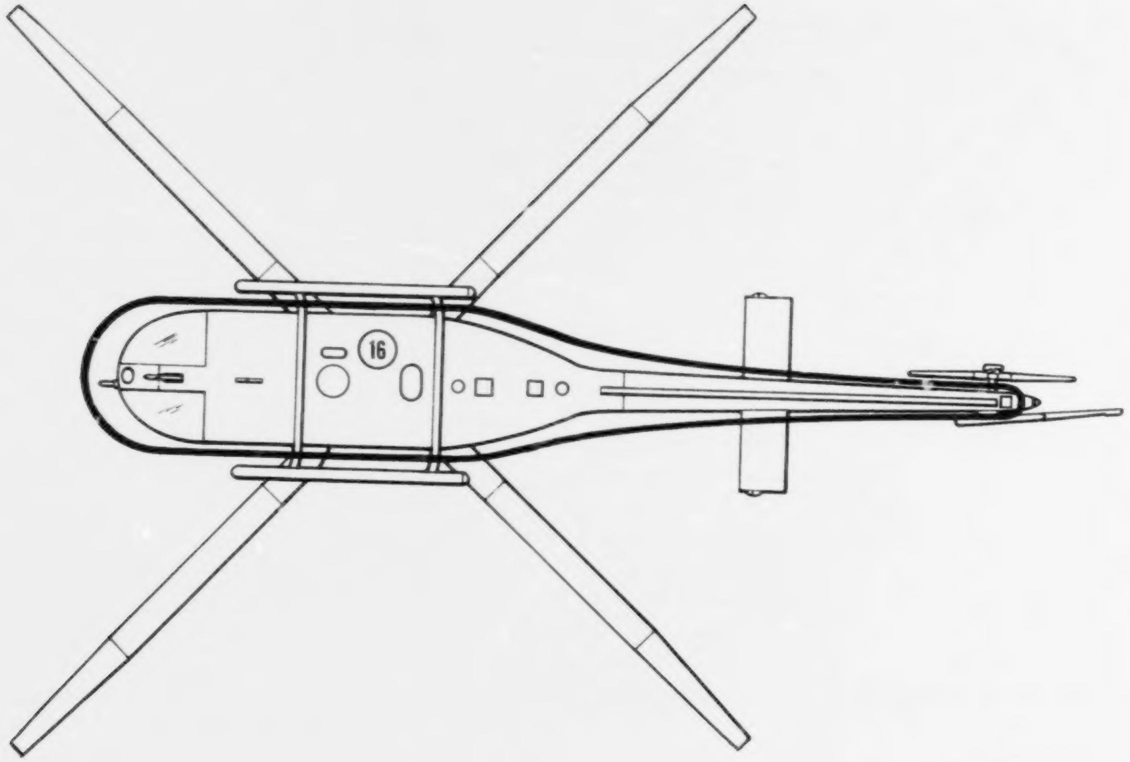
1.20 OIL SAMPLES (AOAP)

TB 43-0106 does not apply to the OH-58D.


1
2
3
4
5
6
7
UNITED STATES ARMY
8
9
10
11
12
13
14
15
UNITED STATES ARMY

406961-174-1A

Figure 1. Inspection Areas (Sheet 1 of 4)



406961-174-2A

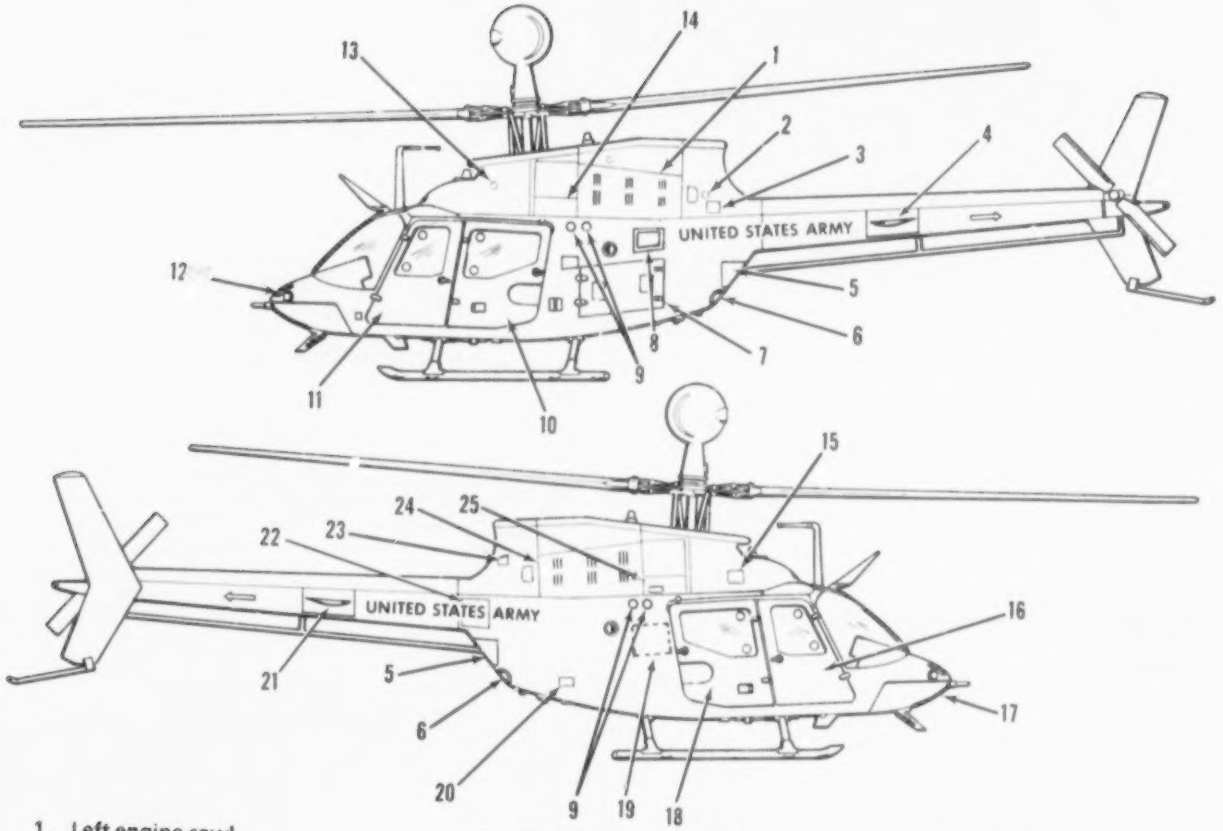
Figure 1. Inspection Areas (Sheet 2)

Area No. 1	Nose Area	All surfaces, components, and equipment in nose compartment and on exterior ahead of crew doors. Includes lower wire strike protector.
Area No. 2	Crew Compartment, (Right Side)	All surfaces, components, and equipment inside cabin and on cabin exterior between forward and aft edge of crew door.
Area No. 3	Access Door and Avionics Compartment, (Right Side)	All surfaces, components, and equipment inside cabin and on cabin exterior between forward and aft edge of access door. Includes aft avionics shelf.
Area No. 4	Fuselage Area, (Right Side)	All surfaces, components, and equipment on aft fuselage exterior between aft edge of access door and forward end of tailboom. Includes fuel filler cap, drain lines, and receptacles.
Area No. 5	Engine Area, (Right Side)	All surfaces, components, and equipment associated with engine installation located above engine work deck and within engine cowling. Includes engine armor, fuel control, starter-generator and particle separator.
Area No. 6	Aft Fairing Assembly	All surfaces, components, and equipment associated with transmission and engine oil system. Includes aft fairing assembly.
Area No. 7	Tailboom, (Right Side)	All surfaces, components, and equipment located in or on the tailboom. Includes antennas, horizontal stabilizer, tail rotor driveshaft cover, all supports, bearings, and shafts mounted on tailboom and fin assembly.
Area No. 8	Tailboom, (Left Side)	All surfaces, components, and equipment located in or on the tailboom. Includes horizontal stabilizer, tail rotor gearbox, tail rotor, and directional control linkages.
Area No. 9	Avionics and Aft Fuselage, (Left Side)	All surfaces, components, and equipment on aft fuselage exterior between aft edge of access door and forward end of tailboom. Includes flight controls, electrical equipment, battery, and aft electrical compartment door.
Area No. 10	Oil System, (Left Side)	All surfaces, components, and equipment associated with transmission and engine oil system. Includes sight gage, flexible coupling, and first bearing of tail rotor driveshaft.

Figure 1. Inspection Areas (Sheet 3)

Area No.11	Engine Area, (Left Side)	All surfaces, components, and equipment associated with engine installation located above engine work deck and within engine cowling. Includes engine armor, alternator, freewheeling unit, and particle separator.
Area No. 12	Access Door and Avionics Compart-, ment, (Left Side)	All surfaces, components, and equipment inside cabin and on cabin exterior between forward and aft edge of left access door. Includes aft avionics shelf.
Area No. 13	Crew Compartment, (Left Side)	All surfaces, components, and equipment inside cabin and on cabin exterior between forward and aft edge of crew door.
Area No. 14	Pylon Area	All surfaces, components, and equipment associated with main rotor and controls, mast mounted sight (MMS), transmission, hydraulic system, antennas, and upper wire strike protector.
Area No. 15	Alighting Gear	All surfaces, components, and equipment associated with skid gear.
Area No. 16	Fuselage, (Bottom Side)	All surfaces, antennas, temperature probe, fuel pump, and searchlight.

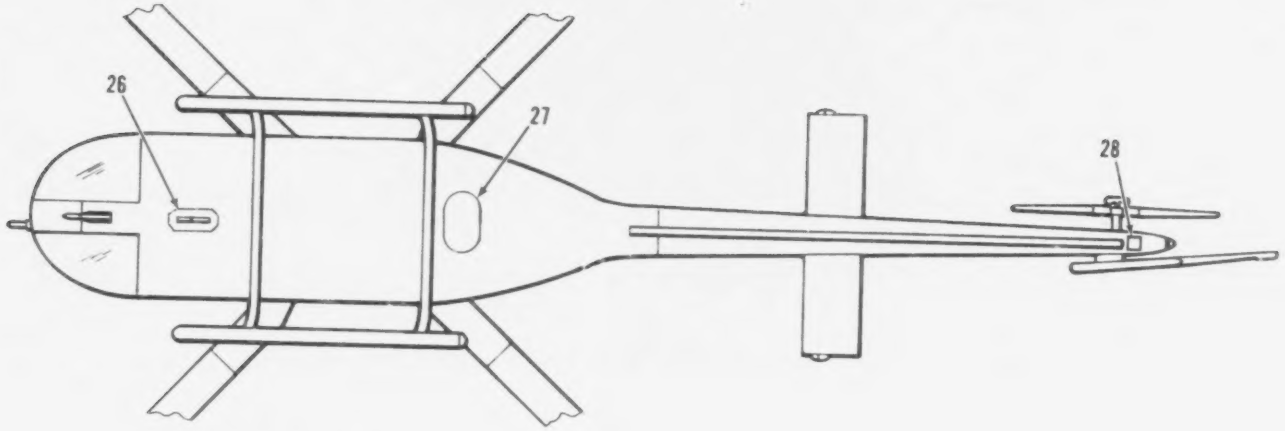
Figure 1. Inspection Areas (Sheet 4)


13
14
1
2
3
4
12
UNITED STATES ARMY
5
6
7
8
9
11
10
15
24
25
22
23
16
UNITED STATES ARMY
21
5
17
6
20
9
19
18

1. Left engine cowl
2. Window oil tank
3. Oil tank drain access door
4. Stabilizer and tailboom access panel
5. Antenna access door
6. Antenna access door
7. Aft electrical compartment door
8. Access panel
9. Maintenance platform attach fittings
10. Access door
11. Crew door
12. Nose door
13. Window hydraulic fluid
14. Left induction access door
15. Transmission inspection door
16. Crew door
17. DC external power receptacle door
18. Access door
19. Fuel line access panel
20. AC external power receptacle door
21. Stabilizer and tailboom access panel
22. Tailboom attach access panel
23. Driveshaft inspection door
24. Right engine cowl
25. Right induction access door

Figure 2. Access and Inspection Provisions (Sheet 1 of 2)

406961-2-18
406-961-001



26. Electrical access panel
27. Ambient temperature access door
28. Tail rotor gearbox access panel

406961-2-2A
406-961-001

Figure 2. Access and Inspection Provisions (Sheet 2)

OH-58D MTF CHECKSHEET

PURPOSE OF TEST FLIGHT	ACFT S/N:	DATE:
PILOT:	UNIT:	

SYMBOLS: ✓ = SATISFACTORY X = DEFICIENCY

	PRIOR TO MAINTENANCE		INFLIGHT CHECKS
	TEST FLIGHT		1. RAD ALT CHECK
	1. FORMS AND RECORDS		2. CONTROL RIGGING
	2. FLIGHT READINESS INSPECTION		3. SCAS
	BEFORE STARTING ENGINE CHECK		4. COLLECTIVE ANTICIPATOR CHECK
	1. FAT ___°C		5. HYDRAULIC SYS CHECK
	2. ALTIMETER		6. AUTOROTATION NR ___%
	3. CWA SYSTEM		7. VIBRATION ANALYSIS
	4. ENGINE HISTORY		8. PYLON ISOLATION MOUNT CHECK
	5. MPD		9. FLIGHT INSTRUMENTS
	STARTING ENGINE AND RUN UP		VSD PAGE
	CHECKS		AIRSPEED INDICATION
	1. START PEAK TGT ___°C		HEADING INDICATION
	START TIME ___		BAROMETRIC ALTIMETER
	2. CYCLIC FWD ___ (lb) AFT ___ (lb)		VSI
	R ___ (lb) L ___ (lb)		ATTITUDE INDICATOR
	COLLECTIVE ___ (lb) T.R ___ (lb)		STANDBY FLIGHT INSTRUMENTS
	3. HYDRAULIC SYSTEM		SLIP INDICATOR
	4. ENG IDLE SPEED CHECK		STANDBY AIRSPEED INDICATOR
	5. CONTROL OVERSPEED CHECK		STANDBY ATTITUDE INDICATOR
	6. SCAS		STANDBY ALTIMETER
	HEADING HOLD		MAGNETIC COMPASS
	SCAS TEST		10. COMMUNICATION
	7. COMPT BLWR		FM-1 ___ UHF ___
	8. DEFOG BLWR		FM-2 ___ HF ___
	9. HTR		VHF ___ FM HOMING ___
	10. PITOT HTR		KY58 ___ TRANSPONDER ___
	11. FUEL BOOST		KY75 ___ APR-39 ___
	12. ENGINE ANTI ICE		ATHS ___
	13. BATT PRHT		11. NAV SYSTEM
	14. INSTRUMENTS R/U		WAYPOINT 1 ___
	XMSN OIL P ___ PSI		2 ___
	XMSN OIL T ___°C		3 ___
	ENG OIL P ___ PSI		CIRCULAR ERROR ___
	ENG OIL T ___°C		ENGINE SHUTDOWN CHECKS
	NG ___% TGT ___°C		1. INSTRUMENTS S/D
	MAST TRQ ___%		XMSN OIL P ___ PSI
	ENG TRQ ___%		XMSN OIL T ___°C
	15. POWER ASSURANCE CHECK		ENG OIL P ___ PSI
	ALTIMETER ___ (Hg) in.		ENG OIL T ___°C
	PA ___ ft. OAT ___°C		NG ___% TGT ___°C
	TGT ___°C NG ___%		MAST TRQ ___%
	QE (chart) ___%		ENG TRQ ___%
	QE (indicated) ___%		BATT V ___
	ENG HEALTH ___%		2. THROTTLE CHECK
	AIRCRAFT HOVER CHECKS		3. POST TEST FLIGHT INSP.
	1. HOVER POWER NG ___%		4. COMPLETE UPDATE FORMS
	TGT ___°C TRQ ___%		AND RECORDS
	2. CONTROL RESPONSE CHECK		5. SPECIAL EQUIPMENT LIST
	3. SCAS		
	4. POWER CYLINDER CHECK		
	5. ENGINE RESPONSE		
	/FUEL CONTROL CHECK		
	6. HOVER BOP – UP		
	7. MMS OPERATIONAL CHECK ___		
	8. DOPPLER UPDATE ___		

Figure 3. Maintenance Test Flight Recording Sheet

ROTOR SMOOTHING RECORD

RED BLADE SERIAL NUMBER					BLUE BLADE SERIAL NUMBER				
ADJUSTMENT NUMBER	TAB	ROLL	BALANCE	EFFECT	ADJUSTMENT NUMBER	TAB	ROLL	BALANCE	EFFECT
1					1				
2					2				
3					3				
4					4				
5					5				

ORANGE BLADE SERIAL NUMBER					GREEN BLADE SERIAL NUMBER				
ADJUSTMENT NUMBER	TAB	ROLL	BALANCE	EFFECT	ADJUSTMENT NUMBER	TAB	ROLL	BALANCE	EFFECT
1					1				
2					2				
3					3				
4					4				
5					5				

REMARKS

PILOTS SIGNATURE

Figure 4. Rotor Smoothing Record

Final Records Checklist

This checklist is provided to ensure the indicated forms and records have been inspected for presence, completeness, legibility and accuracy prior to releasing the helicopter from a phased inspection. Verification of inspection will be indicated by placing the initials of the inspector in the appropriate initial block.

AIRCRAFT LOG BOOK	INITIAL	HISTORICAL RECORDS	INITIAL
DA FORM 2408		DA FORM 2408-5	
DA FORM 2408-12			
DA FORM 2408-13			
DA FORM 2408-14		DA FORM 2408-9	
DA FORM 2408-18		DA FORM 2408-15	
TM 55-1520-248-PPM		DA FORM 2408-16	
		DA FORM 2408-17	
TM 55-1520-248-MTF			
LOCALLY REQUIRED FORMS		LOCALLY REQUIRED FORMS	

PRODUCTION CONTROL RECORDS	INITIAL	QUALITY CONTROL	INITIAL
FLOW CHART		TBO FILE	
STATUS BOARD		QA FILE	
WORK ORDER FILE		SERIAL NUMBER FILE	
MWO FILE		INVENTORY RECORDS	
CONFIGURATION CHART		WEIGHT AND BALANCE	
2405 LOG		MSG FILE	
1352 REPORTS		DA FORM 2410 SUBMITTED	
LOCAL RECORDS		LOCAL RECORDS	

Figure 5. Final Records Checklist

DATE	**MODEL**	**AIRCRAFT SERIAL NUMBER**	**PPM NUMBER(S)**

AREA NO. 1	Nose	Initial	AREA NO. 2	Crew Compartment (Right Side)	Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	Initial	AREA NO. 4	Fuselage (Right Side)	Initial
AREA NO. 5	Engine (Right Side)	Initial	AREA NO. 6	Aft Fairing Assembly	Initial
AREA NO. 7	Tailboom (Right Side)	Initial	AREA NO. 8	Tailboom (Left Side)	Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	Initial	AREA NO. 10	Oil Systems (Left Side)	Initial
AREA NO. 11	Engine (Left Side)	Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	Initial
AREA NO. 13	Crew Compartment (Left Side)	Initial	AREA NO. 14	Pylon	Initial
AREA NO. 15	Alighting Gear	Initial	AREA NO. 16	Fuselage (Bottom Side)	Initial
	Power on Check	Initial		Final Inspection	Initial

PRINTED NAME	**SIGNATURE**	**INITIAL**

Figure 6. Signature Sheet

TRACKING DEFERRABLE INSPECTION REQUIREMENTS PERFORMED EARLY
PPM INSPECTION CHECKLISTS

AIRCRAFT S/N ____________

		INSPECTED BY			
		PRINTED NAME	SIGNATURE	DATE	ACFT HOURS
PPM 1 TASK	2.17				
	2.18				
	7.11				
	8.19				
	8.20				
	8.21				
	10.6				
	11.22				
	14.13				
PPM 2 TASK	1.7				
	1.12				
	2.13				
	4.18				
	4.19				
	5.33				
	9.10				
	12.13				
	14.37				
	14.38				
	14.39				
	14.45				
	14.46				
	14.47				
	14.48				
	14.49				
PPM 3 TASK	11.22				
	14.12				

Figure 7. Deferrable Inspections (Sheet 1 of 8)

TRACKING DEFERRABLE INSPECTION REQUIREMENTS PERFORMED EARLY PPM INSPECTION CHECKLISTS

AIRCRAFT S/N ________________

		INSPECTED BY			
		PRINTED NAME	SIGNATURE	DATE	ACFT HOURS
PPM 4 TASK	8.10				
	8.11				
	8.29				
	14.37				
	14.38				
	14.39				
PPM 5 TASK	3.13				
	3.21				
	3.22				
	3.23				
	3.24				
	7.11				
	11.22				
PPM 6 TASK	1.12				
	5.15				
	5.16				
	5.19				
	5.20				
	5.21				
	5.22				
	5.23				
	5.24				
	5.25				
	5.27				
	5.28				
	9.10				
	14.37				
	14.38				
	14.39				
PPM 7 TASK	2.13				
	4.17				

Figure 7. Deferrable Inspections (Sheet 2)

TRACKING DEFERRABLE INSPECTION REQUIREMENTS PERFORMED EARLY PPM INSPECTION CHECKLISTS

AIRCRAFT S/N ____________

		INSPECTED BY			
		PRINTED NAME	SIGNATURE	DATE	ACFT HOURS
	11.22				
PPM 8 TASK	4.14				
	4.16				
	8.19				
	8.20				
	8.21				
	10.6				
	14.13				
	14.37				
	14.38				
	14.39				
PPM 9 TASK	4.18				
	4.19				
	7.11				
	8.10				
	8.29				
	11.22				
	12.13				
PPM 10 TASK	1.12				
	5.11				
	5.12				
	9.10				
	14.37				
	14.38				
	14.39				
PPM 11 TASK	11.22				

Figure 7. Deferrable Inspections (Sheet 3)

TRACKING DEFERRABLE INSPECTION REQUIREMENTS PERFORMED EARLY PPM INSPECTION CHECKLISTS

AIRCRAFT S/N ____________

		INSPECTED BY			
		PRINTED NAME	SIGNATURE	DATE	ACFT HOURS
PPM 12 TASK	14.25				
	14.29				
	14.37				
	14.38				
	14.39				
	14.44				
PPM 13 TASK	7.11				
	11.22				
PPM 14 TASK	1.12				
	8.10				
	8.29				
	9.10				
	14.37				
	14.38				
	14.39				
PPM 15 TASK	8.19				
	8.20				
	8.21				
	10.6				
	11.22				
	14.13				
	P.10				
	P.11				
	P.12				
	P.13				
	P.14				
	P.15				

Figure 7. Deferrable Inspections (Sheet 4)

TRACKING DEFERRABLE INSPECTION REQUIREMENTS PERFORMED EARLY PPM INSPECTION CHECKLISTS

AIRCRAFT S/N ____________

		INSPECTED BY			
		PRINTED NAME	SIGNATURE	DATE	ACFT HOURS
PPM 16 TASK	2.17				
	2.18				
	4.18				
	4.19				
	12.13				
	14.37				
	14.38				
	14.39				
PPM 17 TASK	2.13				
	5.33				
	7.11				
	11.22				
	14.45				
	14.46				
	14.47				
	14.48				
	14.49				
PPM 18 TASK	1.12				
	9.10				
	14.37				
	14.38				
	14.39				
PPM 19 TASK	8.10				
	8.11				
	8.29				
	11.22				
PPM 20 TASK	3.21				
	3.22				
	3.23				

Figure 7. Deferrable Inspections (Sheet 5)

TRACKING DEFERRABLE INSPECTION REQUIREMENTS PERFORMED EARLY PPM INSPECTION CHECKLISTS

AIRCRAFT S/N ____________

		INSPECTED BY			
		PRINTED NAME	SIGNATURE	DATE	ACFT HOURS
	3.24				
	14.37				
	14.38				
	14.39				
PPM 21 TASK	5.16				
	5.19				
	5.20				
	5.21				
	5.22				
	5.23				
	5.24				
	5.25				
	5.28				
	7.11				
	11.22				
PPM 22 TASK	1.12				
	2.13				
	8.19				
	8.20				
	8.21				
	9.10				
	10.6				
	14.13				
	14.37				
	14.38				
	14.39				

Figure 7. Deferrable Inspections (Sheet 6)

TRACKING DEFERRABLE INSPECTION REQUIREMENTS PERFORMED EARLY PPM INSPECTION CHECKLISTS

AIRCRAFT S/N ____________

		INSPECTED BY			
		PRINTED NAME	SIGNATURE	DATE	ACFT HOURS
PPM 23 TASK	4.14				
	4.15				
	4.16				
	4.18				
	4.19				
	11.22				
	12.13				
PPM 24 TASK	8.10				
	8.29				
	14.37				
	14.38				
	14.39				
PPM 25 TASK	5.11				
	5.12				
	7.11				
	11.22				
PPM 26 TASK	1.12				
	9.10				
	14.37				
	14.38				
	14.39				
PPM 27 TASK	2.13				
	11.22				
	14.29				
	14.44				
PPM 28 TASK	14.37				
	14.38				
	14.39				

Figure 7. Deferrable Inspections (Sheet 7)

TRACKING DEFERRABLE INSPECTION REQUIREMENTS PERFORMED EARLY PPM INSPECTION CHECKLISTS

AIRCRAFT S/N ________

		INSPECTED BY			
		PRINTED NAME	SIGNATURE	DATE	ACFT HOURS
PPM 29 TASK	7.11				
	8.10				
	8.19				
	8.20				
	8.21				
	8.29				
	10.6				
	11.22				
	14.13				
PPM 30 TASK	1.12				
	4.18				
	4.19				
	9.10				
	12.13				
	14.37				
	14.38				
	14.39				
	P.10				
	P.11				
	P.12				
	P.13				
	P.14				
	P.15				

Figure 7. Deferrable Inspections (Sheet 8)

OH-58D SERIAL NUMBER CHECKLIST

ACFT. S/N ____________ ACFT. TIME __________ PHASE __________ CYCLE __________ DATE __________

MAIN ROTOR GRIP NO. 1 (Red) ____________
MAIN ROTOR GRIP NO. 2 (Orange) ____________
MAIN ROTOR GRIP NO. 3 (Blue) ____________
MAIN ROTOR GRIP NO. 4 (Green) ____________
MAIN ROTOR HUB ASSY. ____________
MAIN ROTOR YOKE ____________
MAIN ROTOR UPPER PLATE ____________
MAIN ROTOR LOWER PLATE ____________
SHEAR BEARING ASSY ____________
SHEAR BEARING ASSY ____________
SHEAR BEARING ASSY ____________
SHEAR BEARING ASSY ____________
DRIVE RING SET ____________

SWASHPLATE AND SUPPORT ASSY. ____________
SWASHPLATE OUTER RING ____________
SWASHPLATE INNER RING ____________
ANTIDRIVE LINK ____________
ANTIDRIVE LEVER ____________

CYCLIC SERVOACTUATOR ____________
CYCLIC SERVOACTUATOR ____________
COLLECTIVE ACTUATOR ____________

TAIL ROTOR ACTUATOR ____________
TAIL ROTOR GEARBOX ____________
TAIL ROTOR HUB ____________
MAIN TRANSMISSION ____________
FREE WHEELING SHAFT ASSY. ____________
MAST ASSY. ____________

INPUT DRIVESHAFT ____________
STAND PIPE ASSY ____________

LEFT SIDE BEAM ____________
RIGHT SIDE BEAM ____________
FORWARD TRANSVERSE BEAM ____________
AFT TRANSVERSE BEAM ____________
RESTRAINT SPRING ASSY ____________
RESTRAINT SPRING ASSY ____________
CORNER MOUNT ____________
CORNER MOUNT ____________
CORNER MOUNT ____________
CORNER MOUNT ____________
TRANSMISSION TOP CASE ____________

ENGINE ____________

Figure 8. Serial Number Checklist

Section I

PROGRESSIVE INSPECTION CHECKLIST NUMBER 1

AIRCRAFT S/N:__________ **AIRCRAFT TOTAL TIME:**__________ **DATE:**__________

Tools:

- Spring Scale, (0-10 Pounds)
- Hydraulic Test Stand
- Hand Grease Gun
- Container
- Drain Hose
- Maintenance Platform
- Auxiliary Power Unit
- Air Compressor
- Spray Unit
- Torque Wrench (30-150 Inch-pounds)

Materials:

- Grease, (MIL-G-81322)
- Lubricating Oil, (MIL-L-23699/MIL-L-7808)
- Lockwire
- Wiping Rags
- Hydraulic Fluid (MIL-H-83282/MIL-H-5606
- Cleaning Solvent
- Clean Water
- Methyl Alcohol (Below 48°F only)

Parts:

- Cotter Pin
- Packing

Personnel Required:

- Scout Helicopter Repairer
- Scout Helicopter Technical Inspector
- Power Plant Repairer
- Aircraft Pneudraulics Repairer
- Scout Helicopter Pilot

References:

- TM 55-1500-204-25/1
- TM 11-6605-202-12
- TM 55-2840-256-23
- DA PAM 738-751
- TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE INSPECTION NO. 1	AREA NAME AND NO. NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.13 Radar antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 1	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.17 Standby magnetic compass for compensation (TM 55-1500-204-25/1).

2.18 Gyromagnetic compass set for accuracy (TM 11-6605-202-12).

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 1	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.28 Cyclic torque tube for cracks, distortion, corrosion, and security. Bearings for binding or excessive wear.

2.29 Cyclic control pivot assembly for damage, corrosion, and security. Bearings for binding or excessive wear.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE
INSPECTION NO. 1

AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 1	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

best copy available

PROGRESSIVE INSPECTION NO. 1	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 1	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 1	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 1	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.10 Visually inspect tail rotor driveshaft hanger bearings, mounts and coupling disc assemblies for damage, excessive wear, binding, and security.

7.11 Lubricate tail rotor driveshaft hanger bearings.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 1	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.19 Change tail rotor gearbox oil.

8.20 Clean tail rotor gearbox chip detector.

8.21 Oil sight glass for discoloration and cleanliness.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 1	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 1	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

10.6 Perform a functional check of oil bypass valve .

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 1	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

11.22 Clean engine compressor (TM 55-2840-256-23).

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 1

AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 1	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 1	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.13 Hydraulic reservoir bottom for corrosion.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 1	AREA NAME AND NO. PYLON — 14

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 1	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 1	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 1	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.).
(TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 1	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"

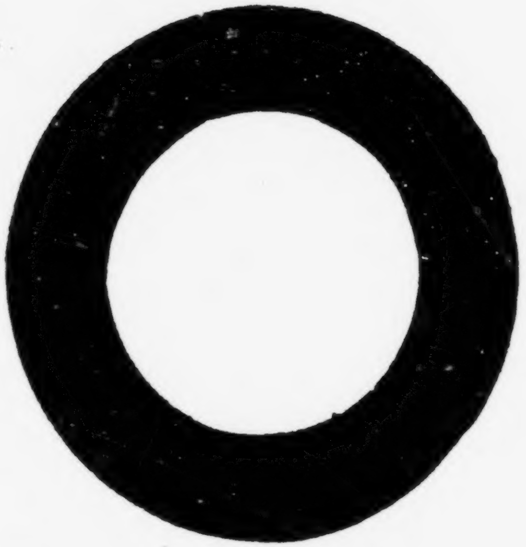
Check work area for tools and parts after completion of maintenance and inspection.

DATE	**MODEL**	**AIRCRAFT SERIAL NUMBER**	**PPM NUMBER(S)**

AREA NO. 1	Nose	Initial	AREA NO. 2	Crew Compartment (Right Side)	Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	Initial	AREA NO. 4	Fuselage (Right Side)	Initial
AREA NO. 5	Engine (Right Side)	Initial	AREA NO. 6	Aft Fairing Assembly	Initial
AREA NO. 7	Tailboom (Right Side)	Initial	AREA NO. 8	Tailboom (Left Side)	Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	Initial	AREA NO. 10	Oil Systems (Left Side)	Initial
AREA NO. 11	Engine (Left Side)	Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	Initial
AREA NO. 13	Crew Compartment (Left Side)	Initial	AREA NO. 14	Pylon	Initial
AREA NO. 15	Alighting Gear	Initial	AREA NO. 16	Fuselage (Bottom Side)	Initial
	Power on Check	Initial		Final Inspection	Initial

PRINTED NAME	**SIGNATURE**	**INITIAL**

Figure 6. Signature Sheet



Section II

PROGRESSIVE INSPECTION CHECKLIST NUMBER 2

AIRCRAFT S/N: ____________ **AIRCRAFT TOTAL TIME:** ____________________ **DATE:** ________________________

Tools:
- Spring Scale, (0-10 Pounds)
- Face Shield
- Hydraulic Test Stand
- Maintenance Platform
- Drain Hose
- Container
- Torque Wrench (150-750 inch-pounds)
- Torque Wrench (30-150 inch-pounds)
- Torque Wrench (0-30 inch-pounds)
- Hand Grease Gun
- Pitot Static Tester
- Special 7/16" Socket
- Auxiliary Power Unit
- Mercury Centigrade Thermometer
- Ohmmeter
- Air Compressor
- Ultrasonic Cleaner
- Flushing Nozzle

Materials:
- Wiping Rags
- Lockwire
- Lubricating Oil (MIL-L-23699/MIL-L-7808)
- Grease (MIL-G-81322)
- Black Tape
- Fresh Water
- Ice
- Trichlorethane
- Plastic Bag
- Rubber Gloves

Parts:
- Oil Filter Element
- Packing
- Cotter Pin
- Nut, Steel, Self-Locking

Personnel Required:
- Scout Helicopter Repairer
- Scout Helicopter Technical Inspector
- Power Plant Repairer
- Aircraft Electrician
- Scout Helicopter Pilot

References:
- DA PAM 738-751
- TM 11-6140-203-14-2
- TM 55-1500-204-25/1
- TM 55-2840-256-23
- TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE
INSPECTION NO. 2

AREA NAME AND NO.
NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.7 Perform functional check of pitot static system and instruments.

Access 11

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.12 Perform preventive maintenance checks and services on the nickel-cadmium battery (TM 11-6140-203-14-2)

Access 12

1.13 Radar antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

1.19 Nose section structure for obvious damage, cracks, corrosion, and voids. Paint and decals for chipped or peeling condition.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 2	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.13 Test FAT gage (TM 55-1500-204-25/1).

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 2	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 2	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 2	**AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4**

4.1 **Fuel filler cap for proper locking and condition of seal. Lanyard for security.**

4.2 **Honeycomb areas for dents, voids, punctures, and other damage.**

4.3 **Grounding strap for security and condition.**

4.4 **Battery vents for obstruction, condition, and security.**

4.5 **Door to ac external power receptacle for condition and security.**

4.6 **Grounding receptacle for security.**

4.7 **Aft jacking point for security.**

4.8 **Screen vent for condition and security.**

4.9 **Grommet on HF homing antenna for security and condition.**

4.10 **Radar antennas for damage and security.**

4.11 **Anticollision light for damage and security.**

4.18 Test connector receptacle ground (TM 55-1500-204-25/1).
4.19 Check refueling receiver and grounding strap for proper ground (TM 55-1500-204-25/1).

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 2	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 2	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

5.33 Clean freewheeling assembly chip detector.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE
INSPECTION NO. 2

AREA NAME AND NO.
AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 2	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights

7.9 Flexpacks for separation, damage, and security.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 2	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 2	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.10 Perform preventive maintenance checks and services on nickle-cadmium battery, if installed (TM 11-6140-203-14-2).

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 2	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

10.5 Engine oil tank and support for leaks and damage. Crazed or discolored sight gages. Attaching hardware for security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 2	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.3 Fuel lines and hoses for chafing, leakage, and security of connections. Apply required torque at all connections.

Access 1

11.4 Bleed air lines for chafing, leakage, and security of connections.

Access 1

11.5 All engine fuel, oil, and air hoses and tubing for damage and security. Apply required torque at all connections.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.12 Torque nuts attaching engine mounts to engine mount fitings. Torque bolts attaching engine mounts to airframe.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.17 Freewheeling unit and input driveshaft for cracked tabs, obvious damage, binding, excessive wear, security, and leakage.

Access 1

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 2	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 2

AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.13 Inspect portable fire extinguisher (TM 55-1500-204-25/1).

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE
INSPECTION NO. 2

AREA NAME AND NO.
CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 2	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

14.37 Lubricate MMS support bearing.

14.38 Lubricate pitch change link bearings.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 2	AREA NAME AND NO. PYLON — 14

14.39 Lubricate swashplate bearing.

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

14.45 Change transmission oil.

14.46 Drain freewheeling assembly.

14.47 Clean or replace transmission oil filter.

14.48 Clean transmission chip detector.

14.49 Transmission oil sight glass for discoloration and cleanliness.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 2	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 2	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 2	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.). (TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 2	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)

AREA NO. 1 Nose ____________ Initial

AREA NO. 2 Crew Compartment (Right Side) ____________ Initial

AREA NO. 3 Access Door and Avionics Compartment (Right Side) ____________ Initial

AREA NO. 4 Fuselage (Right Side) ____________ Initial

AREA NO. 5 Engine (Right Side) ____________ Initial

AREA NO. 6 Aft Fairing Assembly ____________ Initial

AREA NO. 7 Tailboom (Right Side) ____________ Initial

AREA NO. 8 Tailboom (Left Side) ____________ Initial

AREA NO. 9 Avionics and Aft Fuselage (Left Side) ____________ Initial

AREA NO. 10 Oil Systems (Left Side) ____________ Initial

AREA NO. 11 Engine (Left Side) ____________ Initial

AREA NO. 12 Access Door and Avionics Compartment (Left Side) ____________ Initial

AREA NO. 13 Crew Compartment (Left Side) ____________ Initial

AREA NO. 14 Pylon ____________ Initial

AREA NO. 15 Alighting Gear ____________ Initial

AREA NO. 16 Fuselage (Bottom Side) ____________ Initial

Power on Check ____________ Initial

Final Inspection ____________ Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

Section III

PROGRESSIVE INSPECTION CHECKLIST NUMBER 3

AIRCRAFT S/N: ______________ **AIRCRAFT TOTAL TIME:** ______________________ **DATE:** __________________________

Tools:

Hydraulic Test Stand
Maintenance Platform
Spring Scale, (0-10 pounds)
Auxiliary Power Unit
Air Compressor
Spray Unit
Torque Wrench (30-150 inch-pounds)
Torque Wrench (100-750 inch-pounds)

Materials:

Wiping Rags
Cleaning Solvent
Clean Water
Methyl Alcohol (Below 40°F only).

Parts:

None

Personnel Required:

Scout Helicopter Repairer
Scout Helicopter Technical Inspector
Power Plant Repairer
Scout Helicopter Pilot

References:

DA PAM 738-751
TM 55-2840-256-23
TM 55-1520-248-10

THIS CHECKLIST CONTAINS 22 PAGES

PROGRESSIVE INSPECTION NO. 3	AREA NAME AND NO. NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.13 Radar antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

PROGRESSIVE INSPECTION NO. 3	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 3	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.24 Directional control pedals, bellcranks, and control linkage for damage, excessive wear, binding, and security.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE
INSPECTION NO. 3

AREA NAME AND NO. ACCESS DOOR AND
AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 3	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

best copy available

PROGRESSIVE INSPECTION NO. 3	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 3	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 3	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.10 Visually inspect tail rotor driveshaft hanger bearings, mounts, and coupling disc assemblies for damage, excessive wear, binding, and security.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 3	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 3	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.5 Throttle control cable assembly for condition and security.

Access 7

9.6 Heat control cable for condition and security.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.12 Heater air ducts for cracks, cuts, tears, and security.

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 3	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 3	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

11.22 Clean engine compressor (TM 55-2840-256-23).

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 3

AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 3	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 3	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.12 Servoactuators for excessive external leakage.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears. cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 3	AREA NAME AND NO. PYLON — 14

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

PROGRESSIVE INSPECTION NO. 3	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 3	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 3	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.).
(TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 3	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)

AREA NO. 1	Nose	Initial	AREA NO. 2	Crew Compartment (Right Side)	Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	Initial	AREA NO. 4	Fuselage (Right Side)	Initial
AREA NO. 5	Engine (Right Side)	Initial	AREA NO. 6	Aft Fairing Assembly	Initial
AREA NO. 7	Tailboom (Right Side)	Initial	AREA NO. 8	Tailboom (Left Side)	Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	Initial	AREA NO. 10	Oil Systems (Left Side)	Initial
AREA NO. 11	Engine (Left Side)	Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	Initial
AREA NO. 13	Crew Compartment (Left Side)	Initial	AREA NO. 14	Pylon	Initial
AREA NO. 15	Alighting Gear	Initial	AREA NO. 16	Fuselage (Bottom Side)	Initial
	Power on Check	Initial		Final Inspection	Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

Section IV

PROGRESSIVE INSPECTION CHECKLIST NUMBER 4

AIRCRAFT S/N:____________ AIRCRAFT TOTAL TIME: ____________ DATE:____________

Tools:
- Hydraulic Test Stand
- Maintenance Platform
- Spring Scale (0-10 pounds)
- Hand Grease Gun
- Torque Wrench (30-150 inch-pounds)

Materials:
- Wiping Rags
- Grease, (MIL-G-81322)
- Lockwire

Parts:
- Castellated Nut
- Cotter Pin

Personnel Required:
- Scout Helicopter Repairer
- Scout Helicopter Technical Inspector
- Power Plant Repairer

References:
- DA PAM 738-751
- TM 55-2840-256-23
- TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE INSPECTION NO. 4	AREA NAME AND NO. NOSE - 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.13 Radar antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 4	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 4	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 4	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 4	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

PROGRESSIVE INSPECTION NO. 4	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 4	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 4	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 4	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.13 Vertical stabilizer for cracks, punctures, voids, and loose or missing fasteners. Paint and decals for chipped and peeling-condition.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE
INSPECTION NO. 4

AREA NAME AND NO.
TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.2 Nonrotating control linkage at tail rotor gearbox for damage and security. Bearings for binding or worn condition. Control tube and bushing for alignment of vent holes.

8.3 Pitch change tube (exposed portion) for damage, corrosion, and security. Boot for cuts, tears, deterioration, and security.

8.4 Tail rotor crosshead for corrosion.

8.5 Tail rotor pitch links for corrosion and security. Bearings for binding and excessive wear.

8.6 Tail rotor hub bearings for freedom of movement, obvious damage, excessive wear, and security.

8.7 Tail rotor crosshead, links, and control tube clevis for obvious damage, binding, excessive wear, and security.

8.8 Tail rotor pitch horn for damage and security. Pitch horn link stud for security.

8.9 Tail rotor hub for damage and security.

8.10 Lubricate tail rotor pitch change mechanism.

8.11 Disconnect tail rotor pitch change links. Inspect links for freedom of movement and wear. Check tail rotor hub and control system bearings for wear.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.26 Tail rotor control push-pull tubes for chafing, corrosion, and security. Bearings for binding or excessive wear.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 4	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.27 Tail rotor control bellcranks for damage, condition of bearings, and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

8.29 Dynamic balance tail rotor.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 4	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 4	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 4	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 4	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 4	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 4	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

14.37 Lubricate MMS support bearing.

14.38 Lubricate pitch change link bearings.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 4	AREA NAME AND NO. PYLON — 14

14.39 Lubricate swashplate bearing.

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 4	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 4	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 4	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.). (TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 4	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)

AREA NO. 1	Nose	Initial	AREA NO. 2	Crew Compartment (Right Side)	Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	Initial	AREA NO. 4	Fuselage (Right Side)	Initial
AREA NO. 5	Engine (Right Side)	Initial	AREA NO. 6	Aft Fairing Assembly	Initial
AREA NO. 7	Tailboom (Right Side)	Initial	AREA NO. 8	Tailboom (Left Side)	Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	Initial	AREA NO. 10	Oil Systems (Left Side)	Initial
AREA NO. 11	Engine (Left Side)	Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	Initial
AREA NO. 13	Crew Compartment (Left Side)	Initial	AREA NO. 14	Pylon	Initial
AREA NO. 15	Alighting Gear	Initial	AREA NO. 16	Fuselage (Bottom Side)	Initial
	Power on Check	Initial		Final Inspection	Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

Section V

PROGRESSIVE INSPECTION CHECKLIST NUMBER 5

AIRCRAFT S/N: ____________ AIRCRAFT TOTAL TIME: ____________ DATE: ____________

Tools:
- Hydraulic Test Stand
- Maintenance Platform
- Spring Scale (0-10 pounds)
- Auxiliary Power Unit
- Air Compressor
- Spray Unit
- Torque Wrench (30-150 inch-pounds)
- Hand Grease Gun
- 1" x 1 1/8" Open End Wrench
- 1 1/4" x 1 5/16" Open End Wrench

Materials:
- Wiping Rag
- Cleaning Solvent
- Clean Water
- Methyl Alcohol (Below 40°F only)
- Grease. (MIL-G-81322)
- Rubber Gloves
- Drycleaning Solvent (PD-680)

Parts:
- Packing
- Cotter Pin

Personnel Required:
- Scout Helicopter Repairer
- Scout Helicopter Technical Inspector
- Power Plant Repairer
- Scout Helicopter Pilot

References:
- DA PAM 738-751
- TM 55-1500-328-25
- TM 55-2840-256-23
- TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE INSPECTION NO. 5	AREA NAME AND NO. NOSE – 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.13 Radar antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 5

AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 5	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 5	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.13 First aid kit inspection. (TM 55-1500-328-25)

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.16 Avionics compartment floor for punctures, cracks, bonding separation, and cleanliness. Paint and decals for chipped or peeling condition.

3.17 Avionics compartment structure for cracks, corrosion, damage, and loose or missing rivets.

3.18 Fuel cell access area for leakage.

3.19 Fuel cell access cover for voids, punctures, loose Rosan studs, dents, and missing hardware. Paint and decals for chipped or peeling condition.

3.20 Fuel shutoff valve internally for foreign objects to ensure fuel path is not restricted.

3.21 NG control cable assembly for condition and security.

Access Center Post

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 5	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.22 Flight control bellcranks for damage, condition of bearings, and security.

Access Center Post

3.23 Flight control push-pull tubes for chafing, corrosion, and security. Bearing for binding or excessive wear. Inspect cap angles (four long corner extrusion support angles) for buckling and bending.

Access Center Post

3.24 Collective link assembly for damage and security. Bearings for binding or excessive wear. Inspect center post area for FOD.

Access Center Post

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 5	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 5	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

best copy available

PROGRESSIVE INSPECTION NO. 5	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 5	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 5	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.10 Visually inspect tail rotor driveshaft hanger bearings, mounts, and coupling disc assemblies for damage, excessive wear, binding, and security.

7.11 Lubricate tail rotor driveshaft hanger bearings.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 5	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

PROGRESSIVE INSPECTION NO. 5	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 5	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 5	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

11.22 Clean engine compressor (TM 55-2840-256-23).

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 5	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 5	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 5	AREA NAME AND NO. PYLON — 14

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 5	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

PROGRESSIVE INSPECTION NO. 5	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 5	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.).
(TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 5	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

DATE	**MODEL**	**AIRCRAFT SERIAL NUMBER**	**PPM NUMBER(S)**
________	________	________	________

AREA NO. 1	Nose	________ Initial	AREA NO. 2	Crew Compartment (Right Side)	________ Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	________ Initial	AREA NO. 4	Fuselage (Right Side)	________ Initial
AREA NO. 5	Engine (Right Side)	________ Initial	AREA NO. 6	Aft Fairing Assembly	________ Initial
AREA NO. 7	Tailboom (Right Side)	________ Initial	AREA NO. 8	Tailboom (Left Side)	________ Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	________ Initial	AREA NO. 10	Oil Systems (Left Side)	________ Initial
AREA NO. 11	Engine (Left Side)	________ Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	________ Initial
AREA NO. 13	Crew Compartment (Left Side)	________ Initial	AREA NO. 14	Pylon	________ Initial
AREA NO. 15	Alighting Gear	________ Initial	AREA NO. 16	Fuselage (Bottom Side)	________ Initial
	Power on Check	________ Initial		Final Inspection	________ Initial

PRINTED NAME	**SIGNATURE**	**INITIAL**
________	________	________
________	________	________
________	________	________
________	________	________
________	________	________
________	________	________

Figure 6. Signature Sheet

Section VI

PROGRESSIVE INSPECTION CHECKLIST NUMBER 6

AIRCRAFT S/N: ______________ **AIRCRAFT TOTAL TIME:** ______________________ **DATE:** ________________________

Tools:
Hydraulic Test Stand
Maintenance Platform
Spring Scale (0-10 pounds)
Fuel Nozzle Wrench
Container
Fuel Nozzle Gage
Combustion Liner Positioning Fixture
Torque Wrench (30-150 inch-pounds)
Torque Wrench (150-750 inch-pounds)
Auxiliary Power Unit
Hand Grease Gun
Special 7/16" Socket
Dial Indicating Depth Gage
Non-Metallic Blunt Scraper

Materials:
Wiping Rags
Rubber Gloves
Lockwire
Antiseize Compound (MIL-A-907)
16 Gage Wire
Drycleaning Solvent (PD-680)
Lubricating Oil (MIL-L-23699/MIL-L-7808)
Zinc Chromate Primer (MIL-P-8585)
Grease, (MIL-G-81322)

Parts:
Spacers
Packing

Personnel Required:
Scout Helicopter Repairer
Scout Helicopter Technical Inspector
Power Plant Repairer
Scout Helicopter Pilot
Aircraft Electrician

References:
DA PAM 738-751
TM 11-6140-203-14-2
TM 55-2840-256-23
TM 55-1500-204-25/1
TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE INSPECTION NO. 6	AREA NAME AND NO. NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.12 Perform preventive maintenace checks and services on the nickel cadmium battery (TM 11-6140-203-14-2).

Access 12

1.13 Radar antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 6	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 6	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 6	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 6	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE
INSPECTION NO. 6

AREA NAME AND NO.
ENGINE (RIGHT SIDE) — 5

5.1 **Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.**

5.2 **DELETED**

5.3 **Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.**

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.15 Starter generator for brush wear and drive splines for wear

Access 24

5.16 Starter drive spline for excessive wear (TM 55-2840-256-23)

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security

Access 24

5.19 Fuel nozzle removed, checked, and cleaned (TM 55-2840-256-23)

Access 24

5.20 Igniter plug removed, checked, and cleaned (TM 55-2840-256-23)

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 6	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.21 Burner drain valve for security (TM 55-2840-256-23).

Access 24

5.22 Anti-icing valve and solenoid for corrosion and security (TM 55-2840-256-23).

Access 24

5.23 Engine compressor inlet guide vanes for excessive erosion and nicks.

Access 24

5.24 Turbine outlet thermocouple for chafing, worn insulation, and security (TM 55-2840-256-23).

Access 24

5.25 Torque nuts attaching engine mounts to engine mount fittings. Torque bolts attaching engine mounts to airframe.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.27 Engine firewall sealing strips for cuts, tears, deterioration, and security.

5.28 Engine and oil cooler decks for cracks, punctures, voids, and loose or missing rivets. Paint for chipped or peeling condition.

Access 24

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 6	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 6	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 6	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 6	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 6	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.10 Perform preventive maintenance checks and services on nickle-cadmium battery, if installed (TM 11-6140-203-14-2).

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 6	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 6	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 6	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 6	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 6	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

14.37 Lubricate MMS support bearing.

14.38 Lubricate pitch change link bearings.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 6	AREA NAME AND NO. PYLON — 14

14.39 Lubricate swashplate bearing.

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 6	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 6	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 6	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.).
(TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 6	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)
______	______	______	______

AREA NO. 1	Nose	______ Initial	AREA NO. 2	Crew Compartment (Right Side)	______ Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	______ Initial	AREA NO. 4	Fuselage (Right Side)	______ Initial
AREA NO. 5	Engine (Right Side)	______ Initial	AREA NO. 6	Aft Fairing Assembly	______ Initial
AREA NO. 7	Tailboom (Right Side)	______ Initial	AREA NO. 8	Tailboom (Left Side)	______ Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	______ Initial	AREA NO. 10	Oil Systems (Left Side)	______ Initial
AREA NO. 11	Engine (Left Side)	______ Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	______ Initial
AREA NO. 13	Crew Compartment (Left Side)	______ Initial	AREA NO. 14	Pylon	______ Initial
AREA NO. 15	Alighting Gear	______ Initial	AREA NO. 16	Fuselage (Bottom Side)	______ Initial
	Power on Check	______ Initial		Final Inspection	______ Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

Section VII

PROGRESSIVE INSPECTION CHECKLIST NUMBER 7

AIRCRAFT S/N: ____________ AIRCRAFT TOTAL TIME: ____________________ DATE: ________________________

Tools:
- Hydraulic Test Stand
- Maintenance Platform
- Spring Scale (0-10 pounds)
- Auxiliary Power Unit
- Air Compressor
- Spray Unit
- Torque Wrench (30-150 inch-pounds)
- Mercury Centigrade Thermometer

Materials:
- Wiping Rags
- Cleaning Solvent
- Clean Water
- Methyl Alcohol (Below 40°F only)
- Ice

Parts:
- None

Personnel Required:
- Scout Helicopter Repairer
- Scout Helicopter Technical Inspector
- Power Plant Repairer
- Scout Helicopter Pilot

References:
- DA PAM 738-751
- TM 55-1500-204-25/1
- TM 55-2840-256 23
- TM 55-1500-328-25
- TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE INSPECTION NO. 7	AREA NAME AND NO. NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.13 Radar antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence, and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 7	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.13 Test FAT gage. (TM 55-1500-204-25/1)

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 7	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 7

AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 7	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

4.17 Closed circuit refueling unit for cracks. Seals for cuts or evidence of leakage. Lanyard for fraying and security. Bonding strap for security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 7	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 7	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

best copy available

PROGRESSIVE INSPECTION NO. 7	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 7	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.10 Visually inspect tail rotor driveshaft hanger bearings, mounts, and coupling disc assemblies for damage, excessive wear, binding, and security.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 7	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 7	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 7	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 7	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

11.22 Clean engine compressor (TM 55-2840-256-23).

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 7

AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 7	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 7	AREA NAME AND NO. PYLON -- 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 7	AREA NAME AND NO. PYLON — 14

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 7	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 7	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 7	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.).
(TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 7	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

F.6 Perform post-inspection maintenance operational checks (MOC's) as required, (TM 55-1500-328-25).

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)
________	________	________	________

AREA NO. 1	Nose	________ Initial	AREA NO. 2	Crew Compartment (Right Side)	________ Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	________ Initial	AREA NO. 4	Fuselage (Right Side)	________ Initial
AREA NO. 5	Engine (Right Side)	________ Initial	AREA NO. 6	Aft Fairing Assembly	________ Initial
AREA NO. 7	Tailboom (Right Side)	________ Initial	AREA NO. 8	Tailboom (Left Side)	________ Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	________ Initial	AREA NO. 10	Oil Systems (Left Side)	________ Initial
AREA NO. 11	Engine (Left Side)	________ Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	________ Initial
AREA NO. 13	Crew Compartment (Left Side)	________ Initial	AREA NO. 14	Pylon	________ Initial
AREA NO. 15	Alighting Gear	________ Initial	AREA NO. 16	Fuselage (Bottom Side)	________ Initial
	Power on Check	________ Initial		Final Inspection	________ Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

Section VIII

PROGRESSIVE INSPECTION CHECKLIST NUMBER 8

AIRCRAFT S/N: ____________ **AIRCRAFT TOTAL TIME:** ____________________ **DATE:** __________

Tools:

Hydraulic Test Stand
Maintenance Platform
Spring Scale (0-10 pounds)
Torque Wrench (30-150 inch-pounds)
Container
Drain Hose
Hand Grease Gun

Materials:

Wiping Rags
Lubricating Oil (MIL-L-23699/MIL-L-7808)
Lockwire
Hydraulic Fluid (MIL-H-83282/MIL-H-5606
Grease, (MIL-G-81322)

Parts:

Packings

Personnel Required:

Scout Helicopter Repairer
Scout Helicopter Technical Inspector
Power Plant Repairer
Aircraft Pneudraulics Repairer

References:

DA PAM 738-751
TM 55-2840-256-23
TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE INSPECTION NO. 8	AREA NAME AND NO. NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.13 Radar antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 8	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 8	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 8	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 8	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

4.12 Engine oil drain lines for chafing and security of connections.

4.13 Fuel drain lines and hoses for chafing and security of connections.

4.14 Tailboom attachment fittings for corrosion, cracks, and loose rivets. Bolts for torque stripe alignment.

Access 22

4.15 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

4.16 Pressurized fuel line for chafing, leakage, and security of connections. Apply required torque at all connections.

(Access 19)

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 8	AREA NAME AND NO ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 8	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 8	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 8	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 8	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.19 Change tail rotor gearbox oil.

8.20 Clean tail rotor gearbox chip detector.

8.21 Oil sight glass for discoloration and cleanliness.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE
INSPECTION NO. 8

AREA NAME AND NO.
AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 8	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

10.6 Perform a functional check of oil bypass valve.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 8	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE
INSPECTION NO. 8

AREA NAME AND NO. ACCESS DOOR AND
AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 8 | AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 8	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

4.12 Servoactuators for excessive external leakage.

14.13 Hydraulic reservoir bottom for corrosion.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 8	AREA NAME AND NO. PYLON — 14

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

14.37 Lubricate MMS support bearing.

14.38 Lubricate pitch change link bearings.

14.39 Lubricate swashplate bearing.

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 8	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 8	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 8	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.). (TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 8	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)

AREA NO. 1	Nose	Initial	AREA NO. 2	Crew Compartment (Right Side)	Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	Initial	AREA NO. 4	Fuselage (Right Side)	Initial
AREA NO. 5	Engine (Right Side)	Initial	AREA NO. 6	Aft Fairing Assembly	Initial
AREA NO. 7	Tailboom (Right Side)	Initial	AREA NO. 8	Tailboom (Left Side)	Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	Initial	AREA NO. 10	Oil Systems (Left Side)	Initial
AREA NO. 11	Engine (Left Side)	Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	Initial
AREA NO. 13	Crew Compartment (Left Side)	Initial	AREA NO. 14	Pylon	Initial
AREA NO. 15	Alighting Gear	Initial	AREA NO. 16	Fuselage (Bottom Side)	Initial
	Power on Check	Initial		Final Inspection	Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

Section IX

PROGRESSIVE INSPECTION CHECKLIST NUMBER 9

AIRCRAFT S/N: ____________ **AIRCRAFT TOTAL TIME:** ____________________ **DATE:** ______________________

Tools:

- Hydraulic Test Stand
- Maintenance Platform
- Spring Scale (0-10 pounds)
- Auxiliary Power Unit
- Air Compressor
- Spray Unit
- Torque Wrench (30-150 inch-pounds)
- Hand Grease Gun
- Ohmmeter

Materials:

- Wiping Rags
- Cleaning Solvent
- Clean Water
- Methyl Alcohol (Below 40°F only)
- Grease, (MIL-G-81322)
- Lockwire

Parts:

None

Personnel Required:

- Scout Helicopter Repairer
- Scout Helicopter Technical Inspector
- Power Plant Repairer
- Scout Helicopter Pilot

References:

- DA PAM 738-751
- TM 55-1500-204-25/1
- TM 55-2840-256-23
- TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE INSPECTION NO. 9	AREA NAME AND NO. NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.13 Radar antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 9	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 9	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE
INSPECTION NO. 9

AREA NAME AND NO. ACCESS DOOR AND
AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 9	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

4.18 Test connector receptacle ground (TM 55-1500-204-25/1).

4.19 Check refueling receiver and grounding strap for proper ground (TM 55-1500-204-25/1).

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 9	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 9	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

best copy available

PROGRESSIVE INSPECTION NO. 9	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 9	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.10 Visually inspect tail rotor driveshaft hanger bearings, mounts, and coupling disc assemblies for damage, excessive wear, binding, and security.

7.11 Lubricate tail rotor driveshaft hanger bearings.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 9	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8-10 Lubricate tail rotor pitch change mechanism.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

8.29 Dynamic balance tail rotor.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 9	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 9	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 9	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

11.22 Clean engine compressor (TM 55-2840-256-23).

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 9

AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.13 Inspect portable fire extinguisher (TM 55-1500-204-25/1).

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 9	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 9	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 9	AREA NAME AND NO. PYLON — 14

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 9	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 9	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 9	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.). (TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 9	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)

AREA NO. 1	Nose	Initial	AREA NO. 2	Crew Compartment (Right Side)	Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	Initial	AREA NO. 4	Fuselage (Right Side)	Initial
AREA NO. 5	Engine (Right Side)	Initial	AREA NO. 6	Aft Fairing Assembly	Initial
AREA NO. 7	Tailboom (Right Side)	Initial	AREA NO. 8	Tailboom (Left Side)	Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	Initial	AREA NO. 10	Oil Systems (Left Side)	Initial
AREA NO. 11	Engine (Left Side)	Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	Initial
AREA NO. 13	Crew Compartment (Left Side)	Initial	AREA NO. 14	Pylon	Initial
AREA NO. 15	Alighting Gear	Initial	AREA NO. 16	Fuselage (Bottom Side)	Initial
	Power on Check	Initial		Final Inspection	Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

Section X

PROGRESSIVE INSPECTION CHECKLIST NUMBER 10

AIRCRAFT S/N: ____________ **AIRCRAFT TOTAL TIME:** ____________________ **DATE:** ______________________

Tools:
Hydraulic Test Stand
Maintenance Platform
Spring Scale (0-10 pounds)
13/16-inch Crow Foot Adapter Wrench
Hand Grease Gun
Special 7/16" Socket

Materials:
Wiping Rags
Drycleaning Solvent (PD-680)
Rubber Gloves
Lockwire
Grease, (MIL-G-81322)

Parts:
Packing
Filter Element

Personnel Required:
Scout Helicopter Repairer
Scout Helicopter Technical Inspector
Power Plant Repairer
Aircraft Electrician

References:
DA PAM 738-751
TM 11-6140-203-14-2
TM 55-2840-256-23
TM 55-1500-204-25/1
TM 55-1520-248-10

THIS CHECKLIST CONTAINS 26 PAGES

PROGRESSIVE INSPECTION NO. 10	AREA NAME AND NO. NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.12 Perform preventive maintenance checks and services on the nickel-cadmium battery (TM 11-6140-203-14-2)

Access 12

1.13 Radar antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 10	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 10	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 10

AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment sheif for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 10	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 10	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.4 Fuel lines and hoses for chafing, leakage, and security of connections. Apply required torque at all connections.

Access 24

5.5 All engine fuel, oil, and air hoses and tubing for damage and security. Apply required torque at all connections.

Access 24

5.6 Bleed air lines for chafing, leakage, and security of connections.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.9 Fuel control (Ng) lever and clevis bolt hole for elongation. Inspect bolt on fuel control lever for fretting, corrosion, and wear.

Access 24

5.10 NG control cable boot for cuts, tears, cracks, and security. Ensure that the inside is not gummy.

Access 24

5.11 Clean fuel control filter assembly (TM 55-2840-256-23)

Access 24

5.12 Replace fuel pump filter element (TM 55-2840-256-23).

Access 24

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 10	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

PROGRESSIVE INSPECTION NO. 10	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 10	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 10	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 10	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.10 Perform preventive maintenance checks and services on nickle-cadmium battery, if installed (TM 11-6140-203-14-2).

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 10	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 10	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 10	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 10	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 10	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

14.37 Lubricate MMS support bearing.

14.38 Lubricate pitch change link bearings.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 10	AREA NAME AND NO. PYLON — 14

14.39 Lubricate swashplate bearing.

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 10	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 10	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 10	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.). (TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 10	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

F.8 Complete Final Records Checklist (Figure 5) and Serial Number Checklist (Figure 8).

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

Final Records Checklist

This checklist is provided to ensure the indicated forms and records have been inspected for presence, completeness, legibility and accuracy prior to releasing the helicopter from a phased inspection. Verification of inspection will be indicated by placing the initials of the inspector in the appropriate initial block.

AIRCRAFT LOG BOOK	INITIAL	HISTORICAL RECORDS	INITIAL
DA FORM 2408		DA FORM 2408-5	
DA FORM 2408-12			
DA FORM 2408-13			
DA FORM 2408-14		DA FORM 2408-9	
DA FORM 2408-18		DA FORM 2408-15	
TM 55-1520-248-PPM		DA FORM 2408-16	
		DA FORM 2408-17	
TM 55-1520-248-MTF			
LOCALLY REQUIRED FORMS		LOCALLY REQUIRED FORMS	

PRODUCTION CONTROL RECORDS	INITIAL	QUALITY CONTROL	INITIAL
FLOW CHART		TBO FILE	
STATUS BOARD		QA FILE	
WORK ORDER FILE		SERIAL NUMBER FILE	
MWO FILE		INVENTORY RECORDS	
CONFIGURATION CHART		WEIGHT AND BALANCE	
2405 LOG		MSG FILE	
1352 REPORTS		DA FORM 2410 SUBMITTED	
LOCAL RECORDS		LOCAL RECORDS	

Figure 5. Final Records Checklist

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)
____________	____________	____________	____________

AREA NO. 1	Nose	____________ Initial	AREA NO. 2	Crew Compartment (Right Side)	____________ Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	____________ Initial	AREA NO. 4	Fuselage (Right Side)	____________ Initial
AREA NO. 5	Engine (Right Side)	____________ Initial	AREA NO. 6	Aft Fairing Assembly	____________ Initial
AREA NO. 7	Tailboom (Right Side)	____________ Initial	AREA NO. 8	Tailboom (Left Side)	____________ Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	____________ Initial	AREA NO. 10	Oil Systems (Left Side)	____________ Initial
AREA NO. 11	Engine (Left Side)	____________ Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	____________ Initial
AREA NO. 13	Crew Compartment (Left Side)	____________ Initial	AREA NO. 14	Pylon	____________ Initial
AREA NO. 15	Alighting Gear	____________ Initial	AREA NO. 16	Fuselage (Bottom Side)	____________ Initial
	Power on Check	____________ Initial		Final Inspection	____________ Initial

PRINTED NAME	SIGNATURE	INITIAL
____________	____________	____________
____________	____________	____________
____________	____________	____________
____________	____________	____________
____________	____________	____________
____________	____________	____________

Figure 6. Signature Sheet

OH-58D SERIAL NUMBER CHECKLIST

ACFT. S/N ____________ ACFT. TIME ________ PHASE ________ CYCLE ________ DATE ________

MAIN ROTOR GRIP NO. 1 (Red) ____________
MAIN ROTOR GRIP NO. 2 (Orange) ____________
MAIN ROTOR GRIP NO. 3 (Blue) ____________
MAIN ROTOR GRIP NO. 4 (Green) ____________
MAIN ROTOR HUB ASSY. ____________
MAIN ROTOR YOKE ____________
MAIN ROTOR UPPER PLATE ____________
MAIN ROTOR LOWER PLATE ____________
SHEAR BEARING ASSY ____________
SHEAR BEARING ASSY ____________
SHEAR BEARING ASSY ____________
SHEAR BEARING ASSY ____________
DRIVE RING SET ____________

SWASHPLATE AND SUPPORT ASSY. ____________
SWASHPLATE OUTER RING ____________
SWASHPLATE INNER RING ____________
ANTIDRIVE LINK ____________
ANTIDRIVE LEVER ____________

CYCLIC SERVOACTUATOR ____________
CYCLIC SERVOACTUATOR ____________
COLLECTIVE ACTUATOR ____________

TAIL ROTOR ACTUATOR ____________
TAIL ROTOR GEARBOX ____________
TAIL ROTOR HUB ____________
MAIN TRANSMISSION ____________
FREE WHEELING SHAFT ASSY. ____________
MAST ASSY. ____________

INPUT DRIVESHAFT ____________
STAND PIPE ASSY ____________

LEFT SIDE BEAM ____________
RIGHT SIDE BEAM ____________
FORWARD TRANSVERSE BEAM ____________
AFT TRANSVERSE BEAM ____________
RESTRAINT SPRING ASSY ____________
RESTRAINT SPRING ASSY ____________
CORNER MOUNT ____________
CORNER MOUNT ____________
CORNER MOUNT ____________
CORNER MOUNT ____________
TRANSMISSION TOP CASE ____________

ENGINE ____________

Section XI

PROGRESSIVE INSPECTION CHECKLIST NUMBER 11

AIRCRAFT S/N: ____________ **AIRCRAFT TOTAL TIME:** ____________________ **DATE:** ______________________

Tools:
- Hydraulic Test Stand
- Maintenance Platform
- Spring Scale (0-10 pounds)
- Auxiliary Power Unit
- Air Compressor
- Spary Unit
- Torque Wrench (30-150 inch-pounds)

Materials:
- Wiping Rags
- Cleaning Solvent
- Clean Water
- Methyl Alcohol (Below 40°F only)

Parts:
- None

Personnel Required:
- Scout Helicopter Repairer
- Scout Helicopter Technical Inspector
- Power Plant Repairer
- Scout Helicopter Pilot

References:
- DA PAM 738-751
- TM 55-2840-256-23
- TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE INSPECTION NO. 11	AREA NAME AND NO. NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.13 Radar antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 11	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 11	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE
INSPECTION NO. 11

AREA NAME AND NO. ACCESS DOOR AND
AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 11	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

best copy available

PROGRESSIVE INSPECTION NO. 11	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 11	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 11	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 11	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.10 Visually inspect tail rotor driveshaft hanger bearings, mounts, and coupling disc assemblies for damage, excessive wear, binding, and security.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 11	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 11	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 11	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 11	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

11.22 Clean engine compressor (TM 55-2840-256-23).

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 11	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE
INSPECTION NO. 11

AREA NAME AND NO.
CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 11	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 11	AREA NAME AND NO. PYLON — 14

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 11	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

15.7 Landing gear crosstubes for cracks, dents, and excessive spread.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 11	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 11	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.).
(TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 11	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

DATE ________	MODEL ________	AIRCRAFT SERIAL NUMBER ________		PPM NUMBER(S) ________	
AREA NO. 1	Nose	________ Initial	AREA NO. 2	Crew Compartment (Right Side)	________ Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	________ Initial	AREA NO. 4	Fuselage (Right Side)	________ Initial
AREA NO. 5	Engine (Right Side)	________ Initial	AREA NO. 6	Aft Fairing Assembly	________ Initial
AREA NO. 7	Tailboom (Right Side)	________ Initial	AREA NO. 8	Tailboom (Left Side)	________ Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	________ Initial	AREA NO. 10	Oil Systems (Left Side)	________ Initial
AREA NO. 11	Engine (Left Side)	________ Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	________ Initial
AREA NO. 13	Crew Compartment (Left Side)	________ Initial	AREA NO. 14	Pylon	________ Initial
AREA NO. 15	Alighting Gear	________ Initial	AREA NO. 16	Fuselage (Bottom Side)	________ Initial
	Power on Check	________ Initial		Final Inspection	________ Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

Section XII

PROGRESSIVE INSPECTION CHECKLIST NUMBER 12

AIRCRAFT S/N: ____________ **AIRCRAFT TOTAL TIME:** ____________________ **DATE:** ______________________

Tools:

- Hydraulic Test Stand
- Maintenance Platform
- Spring Scale (0-10 pounds)
- Spring Scale (0-50 pounds)
- Torque Wrench (30-150 inch-pounds)
- Hand Grease Gun
- Mercury Centigrade Thermometer
- Preload Tool
- Jackscrews
- Torque Wrench (100-300 inch-pounds)
- Plastic Scraper (Workaid)
- Turret Hoisting Fixture
- Overhead Crane
- Socket, Hex 5/16 x 1/4 inch drive, 2 inch deep
- Container
- Drain Tube

Materials:

- Wiping Rags
- Lockwire
- Corrosion Preventive Compound (MIL-C-16173)
- Masking Tape
- Grease, (MIL-G-81322)
- Fresh Water
- Ice
- Black Tape
- Lubricating Oil (MIL-L-23699/MIL-L-7808

Parts:

- Cotter Pin
- Nuts

Personnel Required:

- Scout Helicopter Repairer
- Scout Helicopter Technical Inspector
- Power Plant Repairer
- Avionic Mechanic

References:

- DA PAM 738-751
- TM 55-1500-204-25/1
- TM 55-2840-256-23
- TM 55-1520-248-10
- TM 9-1240-778-20

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE INSPECTION NO. 12	AREA NAME AND NO. NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.13 Radar antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 12	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.13 Test FAT gage (TM 55-1500-204-25/1).

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 12	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 12	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 12	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 12	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 12	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 12	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 12	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 12	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 12	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 12	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 12	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 12

AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 12	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 12	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.3 Mast-to-transmission seal for damage, excessive wear, binding, security, and leakage.

14.4 Transmission pylon mount area for cracks, corrosion, and security.

14.5 Transmission input quill seal for leakage.

14.6 Collective lever (at transmission) for cracks, corrosion, and security. Bearings for binding or excessive wear.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.11 Servoactuator slotted head bolts through pilot input lever (sloppy links) for freedom to rotate and for security.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.21 Swashplate duplex bearing for smoothness. Disconnect idler links and rotor pitch links. Free lower end of boot. Rotate outer ring in both directions.

14.22 Swashplate uniball for proper friction.

14.23 Main rotor mast seal. Check at swashplate support drain holes for evidence of leakage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 12	AREA NAME AND NO. PYLON — 14

14.24 **Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.**

14.25 Inside diameter of main rotor mast for corrosion. (TM 9-1240-778-20 for removal of MMS)

14.26 **Flight control push-pull tubes for damage, binding or worn bearings, and security.**

14.27 **Flight control bellcranks for damage, condition of bearings, and security.**

14.28 **Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.**

14.29 Disconnect pitch links and drive links from swashplate. Inspect links for freedom of movement, clearance, and wear.

14.30 **Main rotor hub for obvious damage, security, and corrosion/erosion damage.**

14.31 **Main hub stops and buffers for wear.**

14.32 **Main rotor hub, elastomeric bearings for deterioration and security.**

14.33 **Main rotor blades for damage, erosion wear, and cleanliness.**

14.34 **Pitch change links for cracks, distortion, and security.**

14.35 **MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.**

14.36 **MML inspection bolt for leaks, desiccant for proper color. (If replacement is required, inspect internal sensor desiccant).**

14.37 Lubricate MMS support bearing.

14.38 Lubricate pitch change link bearings.

14.39 Lubricate swashplate bearing.

14.40 **FM antennas sealant and security.**

14.41 **WSPS upper cutter assembly for damage and security.**

14.42 **Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.**

14.43 **Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.**

14.44 Swashplate for inner ring rotational movement.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 12	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 12	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

PROGRESSIVE INSPECTION NO. 12	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.).
(TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 12	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)
______	______	______	______

AREA NO. 1 Nose ______ Initial

AREA NO. 2 Crew Compartment (Right Side) ______ Initial

AREA NO. 3 Access Door and Avionics Compartment (Right Side) ______ Initial

AREA NO. 4 Fuselage (Right Side) ______ Initial

AREA NO. 5 Engine (Right Side) ______ Initial

AREA NO. 6 Aft Fairing Assembly ______ Initial

AREA NO. 7 Tailboom (Right Side) ______ Initial

AREA NO. 8 Tailboom (Left Side) ______ Initial

AREA NO. 9 Avionics and Aft Fuselage (Left Side) ______ Initial

AREA NO. 10 Oil Systems (Left Side) ______ Initial

AREA NO. 11 Engine (Left Side) ______ Initial

AREA NO. 12 Access Door and Avionics Compartment (Left Side) ______ Initial

AREA NO. 13 Crew Compartment (Left Side) ______ Initial

AREA NO. 14 Pylon ______ Initial

AREA NO. 15 Alighting Gear ______ Initial

AREA NO. 16 Fuselage (Bottom Side) ______ Initial

Power on Check ______ Initial

Final Inspection ______ Initial

PRINTED NAME	SIGNATURE	INITIAL
______	______	______
______	______	______
______	______	______
______	______	______
______	______	______
______	______	______

Figure 6. Signature Sheet

Section XIII

PROGRESSIVE INSPECTION CHECKLIST NUMBER 13

AIRCRAFT S/N: ____________ AIRCRAFT TOTAL TIME: ____________________ DATE: ______________________

Tools:
- Hydraulic Test Stand
- Maintenance Platform
- Spring Scale (0-10 pounds)
- Auxiliary Power Unit
- Air Compressor
- Spray Unit
- Torque Wrench (30-150 inch-pounds)
- Hand Grease Gun

Materials:
- Wiping Rags
- Cleaning Solvent
- Methyl Alcohol (Below 40°F only)
- Grease (MIL-G-81322)

Parts:
- None

Personnel Required:
- Scout Helicopter Repairer
- Scout Helicopter Technical Inspector
- Power Plant Repairer
- Scout Helicopter Pilot

References:
- DA PAM 738-751
- TM 55-2840-256-23
- TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE INSPECTION NO. 13	AREA NAME AND NO. NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.13 Radar antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 13	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 13	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 13	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 13	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

best copy available

PROGRESSIVE INSPECTION NO. 13	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 13	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 13	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 13	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.10 Visually inspect tail rotor driveshaft hanger bearings, mounts, and coupling disc assemblies for damage, excessive wear, binding, and security.

7.11 Lubricate tail rotor driveshaft hanger bearings.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 13	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 13	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 13	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 13	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

11.22 Clean engine compressor (TM 55-2840-256-23).

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 13
AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 13	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 13	AREA NAME AND NO. PYLON —14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.12 Servoactuators for excessive external leakage.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 13	AREA NAME AND NO. PYLON —14

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 13	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 13	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

16.5 Lower fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

16.6 Lower fuselage structure for cracks, corrosion, voids, dents, punctures, and loose or missing rivets.

16.7 WSPS lower cutter assembly for damage, security, and breakaway tip for presence.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 13	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P 6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.).
(TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 13	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)

AREA NO. 1	Nose	Initial	AREA NO. 2	Crew Compartment (Right Side)	Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	Initial	AREA NO. 4	Fuselage (Right Side)	Initial
AREA NO. 5	Engine (Right Side)	Initial	AREA NO. 6	Aft Fairing Assembly	Initial
AREA NO. 7	Tailboom (Right Side)	Initial	AREA NO. 8	Tailboom (Left Side)	Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	Initial	AREA NO. 10	Oil Systems (Left Side)	Initial
AREA NO. 11	Engine (Left Side)	Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	Initial
AREA NO. 13	Crew Compartment (Left Side)	Initial	AREA NO. 14	Pylon	Initial
AREA NO. 15	Alighting Gear	Initial	AREA NO. 16	Fuselage (Bottom Side)	Initial
	Power on Check	Initial		Final Inspection	Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

Section XIV

PROGRESSIVE INSPECTION CHECKLIST NUMBER 14

AIRCRAFT S/N: ____________ **AIRCRAFT TOTAL TIME:** ____________________ **DATE:** ______________________

Tools:
Hydraulic Test Stand
Maintenance Platform
Spring Scale (0-10 pounds)
Hand Grease Gun
Special 7/16" Socket

Materials:
Wiping Rage
Grease, (MIL-G-81322)
Lockwire

Parts:
None

Personnel Required:
Scout Helicopter Repairer
Scout Helicopter Technical Inspector
Power Plant Repairer
Aircraft Electrician

References:
DA PAM 738-751
TM 11-6140-203-14-2
TM 55-2840-256-23
TM 55-1500-204-25/1
TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE INSPECTION NO. 14	AREA NAME AND NO. NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.12 Perform preventive maintenance checks and services on the nickel-cadmium battery (TM 11-6140-203-14-2)

Access 12

1.13 Radar antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14	**AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5**

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14

AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1	Tail rotor assembly for security. Inspect blades for damage.
8.10	Lubricate tail rotor pitch change mechanism.
8.12	Tail rotor control trunnion for security of control lever attachment and damage.
8.13	Trunnion boot for damage and security.
8.14	Directional control linkage for security and wear.
8.15	Tail rotor gearbox for security. Check oil level.
8.16	Oil filler cap for security.
8.22	General condition of skin for ripples, holes, loose or popped rivets.
8.23	Driveshaft cover for security and damage. Inspect hinges for cracks.
8.24	Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.
8.25	Red position light for cracked lens and security.
8.28	Electrical wiring for chafing and loose or corroded connections.
8.29	Dynamic balance tail rotor.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.10 Perform preventive maintenance checks and services on nickle-cadmium battery, if installed (TM 11-6140-203-14-2).

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

14.37 Lubricate MMS support bearing.

14.38 Lubricate pitch change link bearings.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14	AREA NAME AND NO. PYLON — 14

14.39 Lubricate swashplate bearing.

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.). (TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)
______	______	______	______

AREA NO. 1	Nose	______ Initial	AREA NO. 2	Crew Compartment (Right Side)	______ Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	______ Initial	AREA NO. 4	Fuselage (Right Side)	______ Initial
AREA NO. 5	Engine (Right Side)	______ Initial	AREA NO. 6	Aft Fairing Assembly	______ Initial
AREA NO. 7	Tailboom (Right Side)	______ Initial	AREA NO. 8	Tailboom (Left Side)	______ Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	______ Initial	AREA NO. 10	Oil Systems (Left Side)	______ Initial
AREA NO. 11	Engine (Left Side)	______ Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	______ Initial
AREA NO. 13	Crew Compartment (Left Side)	______ Initial	AREA NO. 14	Pylon	______ Initial
AREA NO. 15	Alighting Gear	______ Initial	AREA NO. 16	Fuselage (Bottom Side)	______ Initial
	Power on Check	______ Initial		Final Inspection	______ Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

TM 55-1520-248-PPM

Section XV

PROGRESSIVE INSPECTION CHECKLIST NUMBER 15

AIRCRAFT S/N: ____________ **AIRCRAFT TOTAL TIME:** ____________________ **DATE:** ______________________

Tools:

Hydraulic Test Stand
Maintenance Platform
Spring Scale (0-10 pounds)
Auxiliary Power Unit
Air compressor
Spray Unit
Torque Wrench (30-150 inch-pounds)
Container
Drain Hose

Materials:

Wiping Rags
Cleaning Solvent
Clean Water
Methyl Alcohol (Below 40°F only)
Lubricating Oil (MIL-L-23699/MIL-L-7808)
Lockwire
Hydraulic Fluid (MIL-H-83282/MIL-H-5606)

Parts:

Packings

Personnel Required:

Scout Helicopter Repairer
Scout Helicopter Technical Inspector
Power Plant Repairer
Scout Helicopter Pilot
Aircraft Pneudraulics Repairer

References:

DA PAM 738-751
TM 55-2840-256-23
TM 55-1520-248-MTF
TM 55-1500-328-25
TM 55-1520-248-10

THIS CHECKLIST CONTAINS 26 PAGES

PROGRESSIVE INSPECTION NO. 15	**AREA NAME AND NO. NOSE — 1**

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 **Aircraft log book for recorded discrepancies (DA PAM 738-751).**

1.2 **Auxiliary power unit door for positive latching and proper operation.**

1.3 **Auxiliary power unit receptacle for bent pins or other damage.**

Access 17

1.4 **Pitot tube for obstruction.**

1.5 **Landing light for broken lens and proper operation.**

1.6 **Pitot static drain lines for moisture.**

1.8 **ICS switch in battery compartment for security. Switch to OFF when not in use.**

Access 12

1.9 **Battery intake vent line and drain line for obstructions. Check battery for leakage and security.**

1.10 **Battery compartment access door for positive latching and proper operation.**

1.11 **Condition of battery access compartment door hinge and weather stripping.**

1.13 **Radar antennas for security and damage.**

1.14 **Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.**

1.15 **Chin bubbles and windshield for cracks, excessive scratches, and distortion.**

1.16 **FAT gage for security.**

1.17 **WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.**

1.18 **Air intake vents on vent drain tubes for obstruction.**

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 15	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 15	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

PROGRESSIVE INSPECTION NO. 15

AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 15	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light fo. damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

best copy available

PROGRESSIVE
INSPECTION NO. 15

AREA NAME AND NO.
ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 15	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 15	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 15	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.10 Visually inspect tail rotor driveshaft hanger bearings, mounts, and coupling disc assemblies for damage, excessive wear, binding, and security.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 15	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.19 Change tail rotor gearbox oil.

8.20 Clean tail rotor gearbox chip detector.

8.21 Oil sight glass for discoloration and cleanliness.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 15

AREA NAME AND NO.
AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 15	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

10.6 Perform a functional check of oil bypass valve.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 15	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

11.22 Clean engine compressor (TM 55-2840-256-23).

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 15	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 15	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

PROGRESSIVE INSPECTION NO. 15

AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.13 Hydraulic reservoir bottom for corrosion.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 15	AREA NAME AND NO. PYLON — 14

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 15	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 15	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 15	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.). (TM 55-1520-248-10)

P.10 Enging chip detectors circuit for continuity by shorting out each chip detector, one at a time, to check caution message on multifunction display (MFD).

P.11 Transmission chip detectors circuit for continuity by shorting out each chip detector, one at a time, to check caution message on MFD.

P.12 Tail rotor gearbox chip detector circuit for continuity by shorting out chip detector, to check caution message on MFD.

P.13 Anti-icing solenoid for proper operation.

P.14 Fuel shutoff valve outlet port for leakage.

P.15 Ensure that the engine fuel pump filter bypass switch lights the caution light when fuel filter pressure switch is in the bypass mode.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 15	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

F.7 Post-Inspection Maintenance Test Flight (MTF) required. (TM 55-1520-248-MTF and TM 55-1500-328-25.)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

OH-58D MTF CHECKSHEET

PURPOSE OF TEST FLIGHT	ACFT S/N:	DATE:
PILOT:	UNIT:	

SYMBOLS: ✓ = SATISFACTORY X = DEFICIENCY

☐	**PRIOR TO MAINTENANCE**	☐	**INFLIGHT CHECKS**
☐	**TEST FLIGHT**	☐	1. RAD ALT CHECK
☐	1. FORMS AND RECORDS	☐	2. CONTROL RIGGING
☐	2. FLIGHT READINESS INSPECTION	☐	3. SCAS
☐	**BEFORE STARTING ENGINE CHECK**	☐	4. COLLECTIVE ANTICIPATOR CHECK
☐	1. FAT ________________ °C	☐	5. HYDRAULIC SYS CHECK
☐	2. ALTIMETER	☐	6. AUTOROTATION NR __________ %
☐	3. CWA SYSTEM	☐	7. VIBRATION ANALYSIS
☐	4. ENGINE HISTORY	☐	8. PYLON ISOLATION MOUNT CHECK
☐	5. MPD	☐	9. FLIGHT INSTRUMENTS
☐	**STARTING ENGINE AND RUN UP**	☐	VSD PAGE
☐	**CHECKS**	☐	AIRSPEED INDICATION
☐	1. START PEAK TGT _____ °C	☐	HEADING INDICATION
☐	START TIME _____	☐	BAROMETRIC ALTIMETER
☐	2. CYCLIC FWD _____ (lb) AFT _____ (lb)	☐	VSI
☐	R _____ (lb) L _____ (lb)	☐	ATTITUDE INDICATOR
☐	COLLECTIVE _____ (lb) T/R _____ (lb)	☐	STANDBY FLIGHT INSTRUMENTS
☐	3. HYDRAULIC SYSTEM	☐	SLIP INDICATOR
☐	4. ENG IDLE SPEED CHECK	☐	STANDBY AIRSPEED INDICATOR
☐	5. CONTROL OVERSPEED CHECK	☐	STANDBY ATTITUDE INDICATOR
☐	6. SCAS	☐	STANDBY ALTIMETER
☐	HEADING HOLD	☐	MAGNETIC COMPASS
☐	SCAS TEST	☐	10. COMMUNICATION
☐	7. COMPT BLWR	☐	FM-1 ____ UHF _____
☐	8. DEFOG BLWR	☐	FM-2 ____ HF _____
☐	9. HTR	☐	VHF ____ FM HOMING _____
☐	10. PITOT HTR	☐	KY58 ____ TRANSPONDER _____
☐	11. FUEL BOOST	☐	KY75 ____ APR-39 _____
☐	12. ENGINE ANTI ICE	☐	ATHS __________
☐	13. BATT PRHT	☐	11. NAV SYSTEM
☐	14. INSTRUMENTS R/U	☐	WAYPOINT 1 __________
☐	XMSN OIL P _____ PSI	☐	2 _____
☐	XMSN OIL T _____ °C	☐	3 _____
☐	ENG OIL P _____ PSI	☐	CIRCULAR ERROR __________
☐	ENG OIL T _____ °C	☐	**ENGINE SHUTDOWN CHECKS**
☐	NG _____ % TGT _____ °C	☐	1. INSTRUMENTS S/D
☐	MAST TRQ _____ %	☐	XMSN OIL P _____ PSI
☐	ENG TRQ _____ %	☐	XMSN OIL T _____ °C
☐	15. POWER ASSURANCE CHECK	☐	ENG OIL P _____ PSI
☐	ALTIMETER _____ (Hg) in.	☐	ENG OIL T _____ °C
☐	PA _____ ft. OAT _____ °C	☐	NG _____ % TGT _____ °C
☐	TGT _____ °C NG _____ %	☐	MAST TRQ __________ %
☐	QE (chart) _____ %	☐	ENG TRQ __________ %
☐	QE (indicated) _____ %	☐	BATT V _____
☐	ENG HEALTH _____ %	☐	2. THROTTLE CHECK
☐	**AIRCRAFT HOVER CHECKS**	☐	3. POST TEST FLIGHT INSP.
☐	1. HOVER POWER NG _____ %	☐	4. COMPLETE UPDATE FORMS
☐	TGT _____ °C TRQ _____ %	☐	AND RECORDS
☐	2. CONTROL RESPONSE CHECK	☐	5. SPECIAL EQUIPMENT LIST
☐	3. SCAS	☐	
☐	4. POWER CYLINDER CHECK	☐	
☐	5. ENGINE RESPONSE	☐	
☐	/FUEL CONTROL CHECK	☐	
☐	6. HOVER BOP – UP	☐	
☐	7. MMS OPERATIONAL CHECK ________	☐	
☐	8. DOPPLER UPDATE ____________	☐	

Figure 3. Maintenance Test Flight Recording Sheet

ROTOR SMOOTHING RECORD

RED BLADE
SERIAL NUMBER

ADJUSTMENT NUMBER	TAB	ROLL	BALANCE	EFFECT
1				
2				
3				
4				
5				

BLUE BLADE
SERIAL NUMBER

ADJUSTMENT NUMBER	TAB	ROLL	BALANCE	EFFECT
1				
2				
3				
4				
5				

ORANGE BLADE
SERIAL NUMBER

ADJUSTMENT NUMBER	TAB	ROLL	BALANCE	EFFECT
1				
2				
3				
4				
5				

GREEN BLADE
SERIAL NUMBER

ADJUSTMENT NUMBER	TAB	ROLL	BALANCE	EFFECT
1				
2				
3				
4				
5				

REMARKS

PILOTS SIGNATURE

Figure 4. Rotor Smoothing Record

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)
________	________	________	________

AREA NO. 1	Nose	________ Initial	AREA NO. 2	Crew Compartment (Right Side)	________ Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	________ Initial	AREA NO. 4	Fuselage (Right Side)	________ Initial
AREA NO. 5	Engine (Right Side)	________ Initial	AREA NO. 6	Aft Fairing Assembly	________ Initial
AREA NO. 7	Tailboom (Right Side)	________ Initial	AREA NO. 8	Tailboom (Left Side)	________ Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	________ Initial	AREA NO. 10	Oil Systems (Left Side)	________ Initial
AREA NO. 11	Engine (Left Side)	________ Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	________ Initial
AREA NO. 13	Crew Compartment (Left Side)	________ Initial	AREA NO. 14	Pylon	________ Initial
AREA NO. 15	Alighting Gear	________ Initial	AREA NO. 16	Fuselage (Bottom Side)	________ Initial
	Power on Check	________ Initial		Final Inspection	________ Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

Section XVI

PROGRESSIVE INSPECTION CHECKLIST NUMBER 16

AIRCRAFT S/N: ______________ AIRCRAFT TOTAL TIME: ____________________ DATE: __________________________

Tools:
- Hydraulic Test Stand
- Maintenance Platform
- Spring Scale (0-10 pounds)
- Hand Grease Gun
- Ohmmeter

Materials:
- Wiping Rags
- Grease, (MIL-G-81322)

Parts:
- None

Personnel Required:
- Scout Helicopter Repairer
- Scout Helicopter Technical Inspector
- Power Plant Repairer

References:
- DA PAM 738-751
- TM 55-1500-204-25/1
- TM 11-6605-202-12
- TM 55-2840-256-23
- TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE INSPECTION NO. 16	AREA NAME AND NO. NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.13 Rader antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 16

AREA NAME AND NO.
CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.17 Standby magnetic compass for compensation (TM 55-1500-204-25/1).

2.18 Gyromagnetic compass set for accuracy (TM 11-6605-202-12).

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 16	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.28 Cyclic torque tube for cracks, distortion, corrosion, and security. Bearings for binding or excessive wear.

2.29 Cyclic control pivot assembly for damage, corrosion, and security. Bearings for binding or excessive wear.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 16

AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 16	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

4.18 Test connector receptacle ground (TM 55-1500-204-25/1).

4.19 Check refueling receiver and grounding strap for proper ground (TM 55-1500-204-25/1).

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 16	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 16	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 16	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 16	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 16	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 16	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 16	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 16	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 16

AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.13 Inspect portable fire extinguisher (TM 55-1500-204-25/1).

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 16	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 16	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

14.37 Lubricate MMS support bearing.

14.38 Lubricate pitch change link bearings.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 16	AREA NAME AND NO. PYLON — 14

14.39 Lubricate swashplate bearing

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

PROGRESSIVE INSPECTION NO. 16	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 16	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 16	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.).
(TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 16	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)

AREA NO. 1	Nose	Initial	AREA NO. 2	Crew Compartment (Right Side)	Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	Initial	AREA NO. 4	Fuselage (Right Side)	Initial
AREA NO. 5	Engine (Right Side)	Initial	AREA NO. 6	Aft Fairing Assembly	Initial
AREA NO. 7	Tailboom (Right Side)	Initial	AREA NO. 8	Tailboom (Left Side)	Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	Initial	AREA NO. 10	Oil Systems (Left Side)	Initial
AREA NO. 11	Engine (Left Side)	Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	Initial
AREA NO. 13	Crew Compartment (Left Side)	Initial	AREA NO. 14	Pylon	Initial
AREA NO. 15	Alighting Gear	Initial	AREA NO. 16	Fuselage (Bottom Side)	Initial
	Power on Check	Initial		Final Inspection	Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

Section XVII

PROGRESSIVE INSPECTION CHECKLIST NUMBER 17

AIRCRAFT S/N: ____________ AIRCRAFT TOTAL TIME: ____________________ DATE: ________________________

Tools:
Hydraulic Test Stand
Maintenance Platform
Spring Scale (0-10 pounds)
Auxiliary Power Unit
Air Compressor
Spray Unit
Torque Wrench (30-150 inch-pounds)
Hand Grease Gun
Drain Hose
Container
Torque Wrench (150-750 inch-pounds)
Mercury Centigrade Thermometer
Ultrasonic Cleaner
Flushing Nozzle

Materials:
Wiping Rags
Cleaning Solvent
Clean Water
Methyl Alcohol (Below 40°F only)
Grease (MIL-G-81322)
Lockwire
Lubricating Oil (MIL-L-23699/MIL-L-7808)
Ice
Plastic Bag
Trichlorethane
Rubber Gloves

Parts:
Oil Filter Element
Packing
Nut, Steel, Self-Locking

Personnel Required:
Scout Helicopter Repairer
Scout Helicopter Technical Inspector
Power Plant Repairer
Scout Helicopter Pilot

References:
DA PAM 738-751
TM 55-1500-204-25/1
TM 55-2840-256-23
TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE INSPECTION NO. 17	AREA NAME AND NO. NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.13 Radar antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 17	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.13 Test FAT gage (TM 55-1500-204-25/1).

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 17	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

best copy available

PROGRESSIVE INSPECTION NO. 17	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 17	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 17	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 DELETED

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 17	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 **NG control cable and end fitting for security and damage.**

Access 24

5.32 **NG control cable mount bracket for security and damage.**

Access 24

5.33 Clean freewheeling assembly chip detector.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 17	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 17	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.10 Visually inspect tail rotor driveshaft hanger bearings, mounts, and coupling disc assemblies for damage, excessive wear, binding, and security.

7.11 Lubricate tail rotor driveshaft hanger bearings.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 17	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 17	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 17	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

10.5 Engine oil tank and support for leaks and damage. Crazed or discolored sight gages. Attaching hardware for security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 17	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.3 Fuel lines and hoses for chafing, leakage, and security of connections. Apply required torque at all connections.

Access 1

11.4 Bleed air lines for chafing, leakage, and security of connections.

Access 1

11.5 All engine fuel, oil, and air hoses and tubing for damage and security. Apply required torque at all connections.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.12 Torque nuts attaching engine mounts to engine mount fittings. Torque bolts attaching engine mounts to airframe.

Access 1

11.13 Engine and oil cooler decks for cracks, punctures, voids, and loose or missing rivets. Paint for chipped or peeling condition.

Access 1

11.14 NG control linkage and connecting clevis for elongation at bolt holes.

Access 1

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 17	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.17 Freewheeling unit and input driveshaft for cracked tabs, obvious damage, binding, excessive wear, security, and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

11.22 Clean engine compressor (TM 55-2840-256-23).

PROGRESSIVE INSPECTION NO. 17

AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 17	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 17	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 17	AREA NAME AND NO. PYLON — 14

14.42 **Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.**

14.43 **Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.**

14.45 Change transmission oil.

14.46 Drain freewheeling assembly.

14.47 Clean or replace transmission oil filter.

14.48 Clean transmission chip detector.

14.49 Transmission oil sight glass for discoloration and cleanliness.

PROGRESSIVE INSPECTION NO. 17	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 17	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 17	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.).
(TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 17	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)

AREA NO. 1	Nose	Initial	AREA NO. 2	Crew Compartment (Right Side)	Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	Initial	AREA NO. 4	Fuselage (Right Side)	Initial
AREA NO. 5	Engine (Right Side)	Initial	AREA NO. 6	Aft Fairing Assembly	Initial
AREA NO. 7	Tailboom (Right Side)	Initial	AREA NO. 8	Tailboom (Left Side)	Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	Initial	AREA NO. 10	Oil Systems (Left Side)	Initial
AREA NO. 11	Engine (Left Side)	Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	Initial
AREA NO. 13	Crew Compartment (Left Side)	Initial	AREA NO. 14	Pylon	Initial
AREA NO. 15	Alighting Gear	Initial	AREA NO. 16	Fuselage (Bottom Side)	Initial
	Power on Check	Initial		Final Inspection	Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

Section XVIII

PROGRESSIVE INSPECTION CHECKLIST NUMBER 18

AIRCRAFT S/N: ____________ AIRCRAFT TOTAL TIME: ____________________ DATE: ______________________

Tools:
- Hydraulic Test Stand
- Maintenance Platform
- Spring Scale (0-10 pounds)
- Hand Grease Gun
- Special 7/16" Socket
- Torque Wrench (100-750 inch-pounds)

Materials:
- Wiping Rags
- Grease, (MIL-G-81322)

Parts:
- None

Personnel Required:
- Scout Helicopter Repairer
- Scout Helicopter Technical Inspector
- Power Plant Repairer
- Aircraft Electrician

References:
- DA PAM 738-751
- TM 11-6140-203-14-2
- TM 55-2840-256-23
- TM 55-1500-204-25/1
- TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE INSPECTION NO. 18	AREA NAME AND NO. NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 **Aircraft log book for recorded discrepancies (DA PAM 738-751).**

1.2 **Auxiliary power unit door for positive latching and proper operation.**

1.3 **Auxiliary power unit receptacle for bent pins or other damage.**

Access 17

1.4 **Pitot tube for obstruction.**

1.5 **Landing light for broken lens and proper operation.**

1.6 **Pitot static drain lines for moisture.**

1.8 **ICS switch in battery compartment for security. Switch to OFF when not in use.**

Access 12

1.9 **Battery intake vent line and drain line for obstructions. Check battery for leakage and security.**

1.10 **Battery compartment access door for positive latching and proper operation.**

1.11 **Condition of battery access compartment door hinge and weather stripping.**

1.12 Perform preventive maintenance checks and services on the nickel-cadmium battery (TM 11-6140-203-14-2)

Access 12

1.13 **Radar antennas for security and damage.**

1.14 **Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.**

1.15 **Chin bubbles and windshield for cracks, excessive scratches, and distortion.**

1.16 **FAT gage for security.**

1.17 **WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.**

1.18 **Air intake vents on vent drain tubes for obstruction.**

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 18	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 18	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

PROGRESSIVE INSPECTION NO. 18	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 18	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 18	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 18	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

PROGRESSIVE INSPECTION NO. 18	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 18	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 18	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 18	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.3 Directional hydraulic actuator, supports, and controls linkage for damage, excessive wear, binding, security, and leakage.

Access 7

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.5 Throttle control cable assembly for condition and security.

Access 7

9.6 Heat control cable for condition and security.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.10 Perform preventive maintenance checks and services on nickle-cadmium battery, if installed (TM 11-6140-203-14-2).

Access 7

9.11 Heater mixing valve area for evidence of air leakage.

Access 7

9.12 Heater air ducts for cracks, cuts, tears, and security.

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 18	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 18	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

PROGRESSIVE INSPECTION NO. 18	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 18 — **AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12**

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 18	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 18	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.12 Servoactuators for excessive external leakage.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 18	AREA NAME AND NO. PYLON — 14

14.37 Lubricate MMS support bearing.

14.38 Lubricate pitch change link bearings.

14.39 Lubricate swashplate bearing.

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

PROGRESSIVE INSPECTION NO. 18	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 18	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 18	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.).
(TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 18	AREA NAME AND NO. FINAL INSPECTION

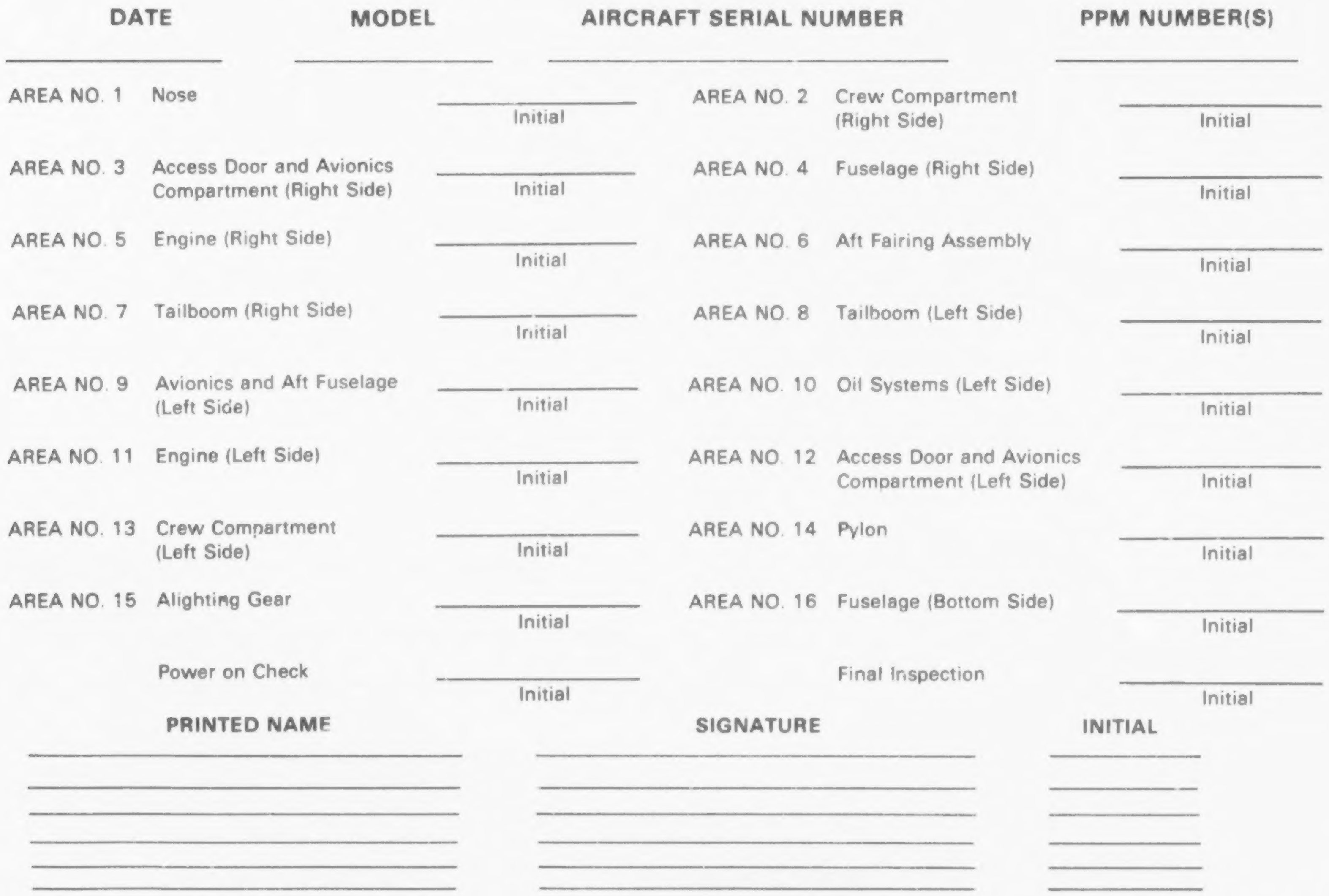
F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.



DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)
____	____	____	____

AREA NO. 1	Nose	____ Initial	AREA NO. 2	Crew Compartment (Right Side)	____ Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	____ Initial	AREA NO. 4	Fuselage (Right Side)	____ Initial
AREA NO. 5	Engine (Right Side)	____ Initial	AREA NO. 6	Aft Fairing Assembly	____ Initial
AREA NO. 7	Tailboom (Right Side)	____ Initial	AREA NO. 8	Tailboom (Left Side)	____ Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	____ Initial	AREA NO. 10	Oil Systems (Left Side)	____ Initial
AREA NO. 11	Engine (Left Side)	____ Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	____ Initial
AREA NO. 13	Crew Compartment (Left Side)	____ Initial	AREA NO. 14	Pylon	____ Initial
AREA NO. 15	Alighting Gear	____ Initial	AREA NO. 16	Fuselage (Bottom Side)	____ Initial
	Power on Check	____ Initial		Final Inspection	____ Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

Section XIX

PROGRESSIVE INSPECTION CHECKLIST NUMBER 19

AIRCRAFT S/N: ____________ AIRCRAFT TOTAL TIME: ________________ DATE: ____________________

Tools:
- Hydraulic Test Stand
- Maintenance Platform
- Spring Scale (0-10 pounds)
- Auxiliary Power Unit
- Air Compressor
- Spray Unit
- Torque Wrench (30-150 inch-pounds)
- Hand Grease Gun

Materials:
- Wiping Rags
- Cleaning Solvent
- Clean Water
- Methyl Alcohol (Below 40°F only)
- Lockwire
- Grease, (MIL-G-81322)
- Lubricating Oil (MIL-L-23699/MIL-L-7808)
- Drycleaning Solvent (PD-680)
- Rubber Gloves

Parts:
- Castellated Nut
- Cotter Pin
- Packing

Personnal Required:
- Scout Helicopter Repairer
- Scout Helicopter Technical Inspector
- Power Plant Repairer
- Scout Helicopter Pilot

References:
- DA PAM 738-751
- TM 55-2840-256-23
- TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE INSPECTION NO. 19	AREA NAME AND NO. NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.13 Radar antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE	AREA NAME AND NO.
INSPECTION NO. 19	CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 19	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

best copy available

PROGRESSIVE INSPECTION NO. 19

AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 19	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 19	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 19	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 19	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 19	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.10 Visually inspect tail rotor driveshaft hanger bearings, mounts, and coupling disc assemblies for damage, excessive wear, binding, and security.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.13 Vertical stabilizer for cracks, punctures, voids, and loose or missing fasteners. Paint and decals for chipped and peeling condition.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 19	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.2 Nonrotating control linkage at tail rotor gearbox for damage and security. Bearings for binding or worn condition. Control tube and bushing for alignment of vent holes.

8.3 Pitch change tube (exposed portion) for damage, corrosion, and security. Boot for cuts, tears, deterioration, and security.

8.4 Tail rotor crosshead for corrosion.

8.5 Tail rotor pitch links for corrosion and security. Bearings for binding and excessive wear.

8.6 Tail rotor hub bearings for freedom of movement, obvious damage, excessive wear, and security.

8.7 Tail rotor crosshead, links, and control tube clevis for obvious damage, binding, excessive wear, and security.

8.8 Tail rotor pitch horn for damage and security. Pitch horn link stud for security.

8.9 Tail rotor hub for damage and security.

8.10 Lubricate tail rotor pitch change mechanism.

8.11 Disconnect tail rotor pitch change links. Inspect links for freedom of movement and wear. Check tail rotor hub and control system bearings for wear.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.17 Tail rotor gearbox and vent for obstruction, obvious damage, binding, and excessive wear.

8.18 Remove, clean, and install tail rotor gearbox vent filter.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 19	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.25 Red position light for cracked lens and security.

8.26 Tail rotor control push-pull tubes for chafing, corrosion, and security. Bearings for binding or excessive wear.

8.27 Tail rotor control bellcranks for damage, condition of bearings, and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

8.29 Dynamic balance tail rotor.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 19	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 19	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

PROGRESSIVE INSPECTION NO. 19	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

11.22 Clean engine compressor (TM 55-2840-256-23).

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 19	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 19	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 19	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 19	AREA NAME AND NO. PYLON — 14

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 19	AREA NAME AND NO. ALIGHTING GEAR -- 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 19	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

PROGRESSIVE INSPECTION NO. 19	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.).
(TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 19	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

DATE	**MODEL**	**AIRCRAFT SERIAL NUMBER**	**PPM NUMBER(S)**

AREA NO. 1	Nose	Initial	AREA NO. 2	Crew Compartment (Right Side)	Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	Initial	AREA NO. 4	Fuselage (Right Side)	Initial
AREA NO. 5	Engine (Right Side)	Initial	AREA NO. 6	Aft Fairing Assembly	Initial
AREA NO. 7	Tailboom (Right Side)	Initial	AREA NO. 8	Tailboom (Left Side)	Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	Initial	AREA NO. 10	Oil Systems (Left Side)	Initial
AREA NO. 11	Engine (Left Side)	Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	Initial
AREA NO. 13	Crew Compartment (Left Side)	Initial	AREA NO. 14	Pylon	Initial
AREA NO. 15	Alighting Gear	Initial	AREA NO. 16	Fuselage (Bottom Side)	Initial
	Power on Check	Initial		Final Inspection	Initial

PRINTED NAME	**SIGNATURE**	**INITIAL**

Figure 6. Signature Sheet

Section XX

PROGRESSIVE INSPECTION CHECKLIST NUMBER 20

AIRCRAFT S/N: ______________ **AIRCRAFT TOTAL TIME:** ____________________ **DATE:** ________________________

Tools:
- Hydraulic Test Stand
- Maintenance Platform
- Spring Scale (0-10 pounds)
- 1" x 1 1/8" Open End Wrench
- 1 1/4" x 1 5/16" Open End Wrench
- Hand Grease Gun

Materials:
- Wiping Rags
- Rubber Gloves
- Drycleaning Solent (PD-680)
- Grease, (MIL-G-81322)

Parts:
- Packing
- Cotter Pin

Personnel Required:
- Scout Helicopter Repairer
- Scout Helicopter Technical Inspector
- Power Plant Repairer

References:
- DA PAM 738-751
- TM 55-2840-256-23
- TM 55-1520-248-10

THIS CHECKLIST CONTAINS 26 PAGES

PROGRESSIVE INSPECTION NO. 20	AREA NAME AND NO. NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.13 Radar antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 20	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 20	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 20

AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.16 Avionics compartment floor for punctures, cracks, bonding separation, and cleanliness. Paint and decals for chipped or peeling condition.

3.17 Avionics compartment structure for cracks, corrosion, damage, and loose or missing rivets.

3.18 Fuel cell access area for leakage.

3.19 Fuel cell access cover for voids, punctures, loose Rosan studs, dents, and missing hardware. Paint and decals for chipped or peeling condition.

3.20 Fuel shutoff valve internally for foreign objects to ensure fuel path is not restricted.

3.21 NG control cable assembly for condition and security.

Access Center Post

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 20	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.22 Flight control bellcranks for damage, condition of bearings, and security.

Access Center Post

3.23 Flight control push-pull tubes for chafing, corrosion, and security. Bearing for binding or excessive wear. Inspect cap angles (four long corner extrusion support angles) for buckling and bending.

Access Center Post

3.24 Collective link assembly for damage and security. Bearings for binding or excessive wear. Inspect center post area for FOD.

Access Center Post

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 20	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 20	**AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5**

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 20	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 20	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 20	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 20	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 20	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 20	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 20	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 20	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 20	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 20	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

14.37 Lubricate MMS support bearing.

14.38 Lubricate pitch change link bearing.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 20	AREA NAME AND NO. PYLON — 14

14.39 Lubricate swashplate bearing.

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 20	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 20	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 20	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.).
(TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 20	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

F.8 Complete Final Records Checklist (Figure 5) and Serial Number Checklist (figure 8).

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

Final Records Checklist

This checklist is provided to ensure the indicated forms and records have been inspected for presence, completeness, legibility and accuracy prior to releasing the helicopter from a phased inspection. Verification of inspection will be indicated by placing the initials of the inspector in the appropriate initial block.

AIRCRAFT LOG BOOK	INITIAL	HISTORICAL RECORDS	INITIAL
DA FORM 2408		DA FORM 2408-5	
DA FORM 2408-12			
DA FORM 2408-13			
DA FORM 2408-14		DA FORM 2408-9	
DA FORM 2408-18		DA FORM 2408-15	
TM 55-1520-248-PPM		DA FORM 2408-16	
		DA FORM 2408-17	
TM 55-1520-248-MTF			
LOCALLY REQUIRED FORMS		LOCALLY REQUIRED FORMS	

PRODUCTION CONTROL RECORDS	INITIAL	QUALITY CONTROL	INITIAL
FLOW CHART		TBO FILE	
STATUS BOARD		QA FILE	
WORK ORDER FILE		SERIAL NUMBER FILE	
MWO FILE		INVENTORY RECORDS	
CONFIGURATION CHART		WEIGHT AND BALANCE	
2405 LOG		MSG FILE	
1352 REPORTS		DA FORM 2410 SUBMITTED	
LOCAL RECORDS		LOCAL RECORDS	

Figure 5. Final Records Checklist

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)

AREA NO. 1	Nose	Initial	AREA NO. 2	Crew Compartment (Right Side)	Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	Initial	AREA NO. 4	Fuselage (Right Side)	Initial
AREA NO. 5	Engine (Right Side)	Initial	AREA NO. 6	Aft Fairing Assembly	Initial
AREA NO. 7	Tailboom (Right Side)	Initial	AREA NO. 8	Tailboom (Left Side)	Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	Initial	AREA NO. 10	Oil Systems (Left Side)	Initial
AREA NO. 11	Engine (Left Side)	Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	Initial
AREA NO. 13	Crew Compartment (Left Side)	Initial	AREA NO. 14	Pylon	Initial
AREA NO. 15	Alighting Gear	Initial	AREA NO. 16	Fuselage (Bottom Side)	Initial
	Power on Check	Initial		Final Inspection	Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. **Signature Sheet**

ACFT. S/N ______________ ACFT. TIME __________ PHASE __________ CYCLE __________ DATE __________

MAIN ROTOR GRIP NO. 1 (Red) ______________
MAIN ROTOR GRIP NO. 2 (Orange) ______________
MAIN ROTOR GRIP NO. 3 (Blue) ______________
MAIN ROTOR GRIP NO. 4 (Green) ______________
MAIN ROTOR HUB ASSY. ______________
MAIN ROTOR YOKE ______________
MAIN ROTOR UPPER PLATE ______________
MAIN ROTOR LOWER PLATE ______________
SHEAR BEARING ASSY ______________
SHEAR BEARING ASSY ______________
SHEAR BEARING ASSY ______________
SHEAR BEARING ASSY ______________
DRIVE RING SET ______________

SWASHPLATE AND SUPPORT ASSY. ______________
SWASHPLATE OUTER RING ______________
SWASHPLATE INNER RING ______________
ANTIDRIVE LINK ______________
ANTIDRIVE LEVER ______________
CYCLIC SERVOACTUATOR ______________
CYCLIC SERVOACTUATOR ______________
COLLECTIVE ACTUATOR ______________

TAIL ROTOR ACTUATOR ______________
TAIL ROTOR GEARBOX ______________
TAIL ROTOR HUB ______________
MAIN TRANSMISSION ______________
FREE WHEELING SHAFT ASSY. ______________
MAST ASSY. ______________

INPUT DRIVESHAFT ______________
STAND PIPE ASSY ______________

LEFT SIDE BEAM ______________
RIGHT SIDE BEAM ______________
FORWARD TRANSVERSE BEAM ______________
AFT TRANSVERSE BEAM ______________
RESTRAINT SPRING ASSY ______________
RESTRAINT SPRING ASSY ______________
CORNER MOUNT ______________
CORNER MOUNT ______________
CORNER MOUNT ______________
CORNER MOUNT ______________
TRANSMISSION TOP CASE ______________

ENGINE ______________

Figure 8. **Serial Number Checklist**

Section XXI

PROGRESSIVE INSPECTION CHECKLIST NUMBER 21

AIRCRAFT S/N: ______________ AIRCRAFT TOTAL TIME: ____________________ DATE: ________________________

Tools:

Hydraulic Test Stand
Maintenance Platform
Spring Scale (0-10 pounds)
Auxiliary Power Unit
Air Compressor
Spray Unit
Torque Wrench (30-150 inch-pounds)

Torque Wrench (150-750 inch-pounds)
Container
Fuel Nozzle Gage
Combustion Liner Positioning Fixture
Fuel Nozzle Wrench
Hand Grease Gun
Non-Metallic Blunt Scraper
Dial Indicating Depth Gage

Materials:

Wiping Rags
Cleaning Solvent
Clean Water
Methyl Alcohol (Below 40°F only)
Rubber Gloves
Lockwire
Antiseize Compound (MIL-A-907)
16 Gage Wire
Grease, (MIL-G-81322)
Drycleaning Solvent (PD-680)

Parts:

Spacers
Packing

Personnel Required:

Scout Helicopter Repairer
Scout Helicopter Technical Inspector
Power Plant Repairer
Scout Helicopter Pilot

References:

DA PAM 738-751
TM 55-2840-256-23
TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE INSPECTION NO. 21	AREA NAME AND NO. NOSE -- 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.13 Radar antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 21	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 21	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 21	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 21	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 21	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 **Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.**

5.2 **DELETED**

5.3 **Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.**

Access 24

5.7 **Combustion chamber for cracks and evidence of overheating.**

Access 24

5.8 **Fuel control for security and evidence of leaks.**

Access 24

5.13 **Fuel filter for security and evidence of leaks.**

Access 24

5.14 **Starter-generator and electrical leads for security and evidence of overheating.**

Access 24

5.16 Starter drive spline for excessive wear (TM 55-2840-256-23).

Access 24

5.17 **Driveshaft coupling for security.**

Access 24

5.18 **Exhaust ejector for cracks and security.**

Access 24

5.19 Fuel nozzle removed, checked, and cleaned (TM 55-2840-256-23).

5.20 Igniter plug removed, checked, and cleaned (TM 55-2840-256-23).

Access 24

5.21 Burner drain valve for security (TM 55-2840-256-23).

Access 24

5.22 Anti-icing valve and solenoid for corrosion and security (TM 55-2840-256-23).

Access 24

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 21	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.23 Engine compressor inlet guide vanes for excessive erosion and nicks.

Access 24

5.24 Turbine outlet thermocouple for chafing, worn insulation, and security (TM 55-2840-256-23).

Access 24

5.25 Torque nuts attaching engine mounts to engine mount fittings. Torque bolts attaching engine mounts to airframe.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.28 Engine and oil cooler decks for cracks, punctures, voids, and loose or missing rivets. Paint for chipped or peeling condition.

Access 24

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 21	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 21	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.10 Visually inspect tail rotor driveshaft hanger bearings, mounts, and coupling disc assemblies for damage, excessive wear, binding, and security.

7.11 Lubricate tail rotor driveshaft hanger bearings.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 21	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 21	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 21	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 21	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

11.22 Clean engine compressor (TM 55-2840-256-23).

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 21	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 21	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

PROGRESSIVE INSPECTION NO. 21	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 21	AREA NAME AND NO. PYLON — 14

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 21	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 21	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 21	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.). (TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 21	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

DATE ____ MODEL ____ AIRCRAFT SERIAL NUMBER ____ PPM NUMBER(S) ____

AREA NO. 1 Nose ____ Initial

AREA NO. 2 Crew Compartment (Right Side) ____ Initial

AREA NO. 3 Access Door and Avionics Compartment (Right Side) ____ Initial

AREA NO. 4 Fuselage (Right Side) ____ Initial

AREA NO. 5 Engine (Right Side) ____ Initial

AREA NO. 6 Aft Fairing Assembly ____ Initial

AREA NO. 7 Tailboom (Right Side) ____ Initial

AREA NO. 8 Tailboom (Left Side) ____ Initial

AREA NO. 9 Avionics and Aft Fuselage (Left Side) ____ Initial

AREA NO. 10 Oil Systems (Left Side) ____ Initial

AREA NO. 11 Engine (Left Side) ____ Initial

AREA NO. 12 Access Door and Avionics Compartment (Left Side) ____ Initial

AREA NO. 13 Crew Compartment (Left Side) ____ Initial

AREA NO. 14 Pylon ____ Initial

AREA NO. 15 Alighting Gear ____ Initial

AREA NO. 16 Fuselage (Bottom Side) ____ Initial

Power on Check ____ Initial

Final Inspection ____ Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

Section XXII

PROGRESSIVE INSPECTION CHECKLIST NUMBER 22

AIRCRAFT S/N: ____________ **AIRCRAFT TOTAL TIME:** ____________________ **DATE:** ________________________

Tools:

- Hydraulic Test Stand
- Maintenance Platform
- Spring Scale (0-10 pounds)
- Torque Wrench (30-150 inch pounds)
- Container
- Drain Hose
- Hand Grease Gun
- Special 7/16" Socket
- Mercury Centigrade Thermometer

Materials:

- Wiping Rags
- Lubricating Oil (MIL-L-23699/MIL-L-7808)
- Hydraulic Fluid (MIL-H-83282/MIL-H-5606)
- Grease, (MIL-G-81322)
- Lockwire
- Mineral Spirits

Parts:

- Packing

Personnel Required:

- Scout Helicopter Repairer
- Scout Helicopter Technical Inspector
- Power Plant Repairer
- Scout Helicopter Pilot
- Aircraft Pneudraulics Repairer
- Aircraft Electrician

References:

- DA PAM 738-751
- TM 11-6140-203-14-2
- TM 55-1500-204-25/1
- TM 55-2840-256-23
- TM 55-1500-238-25
- TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE INSPECTION NO. 22	AREA NAME AND NO. NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 **Aircraft log book for recorded discrepancies (DA PAM 738-751).**

1.2 **Auxiliary power unit door for positive latching and proper operation.**

1.3 **Auxiliary power unit receptacle for bent pins or other damage.**

Access 17

1.4 **Pitot tube for obstruction.**

1.5 **Landing light for broken lens and proper operation.**

1.6 **Pitot static drain lines for moisture.**

1.8 **ICS switch in battery compartment for security. Switch to OFF when not in use.**

Access 12

1.9 **Battery intake vent line and drain line for obstructions. Check battery for leakage and security.**

1.10 **Battery compartment access door for positive latching and proper operation.**

1.11 **Condition of battery access compartment door hinge and weather stripping.**

1.12 Perform preventive maintenance checks and services on the nickel-cadmium battery (TM 11-6140-203-14-2)

Access 12

1.13 **Radar antennas for security and damage.**

1.14 **Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.**

1.15 **Chin bubbles and windshield for cracks, excessive scratches, and distortion.**

1.16 **FAT gage for security.**

1.17 **WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.**

1.18 **Air intake vents on vent drain tubes for obstruction.**

PROGRESSIVE INSPECTION NO. 22	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.13 Test FAT gage (TM 55-1500-204-25/1).

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 22	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 22	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 22	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 22	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 DELETED

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 22	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 22	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 22	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE
INSPECTION NO. 22

AREA NAME AND NO.
TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.19 Change tail rotor gearbox oil.

8.20 Clean tail rotor gearbox chip detector.

8.21 Oil sight glass for discoloration and cleanliness.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 22	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.10 Perform preventive maintenance checks and services on nickle-cadmium battery, if installed (TM 11-6140-203-14-2).

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 22	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

10.6 Perform a functional check of oil bypass valve.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 22	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 22	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 22	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 22	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.13 Hydraulic reservoir bottom for corrosion.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 22	AREA NAME AND NO. PYLON — 14

14.37 Lubricate MMS support bearing.

14.38 Lubricate pitch change link bearings.

14.39 Lubricate swashplate bearing.

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 22	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 22	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 22	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.).
(TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 22	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

F.6 **Perform post-inspection maintenance operational checks (MOC's) as required (TM 55-1500-328-25).**

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)

AREA NO. 1	Nose	Initial	AREA NO. 2	Crew Compartment (Right Side)	Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	Initial	AREA NO. 4	Fuselage (Right Side)	Initial
AREA NO. 5	Engine (Right Side)	Initial	AREA NO. 6	Aft Fairing Assembly	Initial
AREA NO. 7	Tailboom (Right Side)	Initial	AREA NO. 8	Tailboom (Left Side)	Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	Initial	AREA NO. 10	Oil Systems (Left Side)	Initial
AREA NO. 11	Engine (Left Side)	Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	Initial
AREA NO. 13	Crew Compartment (Left Side)	Initial	AREA NO. 14	Pylon	Initial
AREA NO. 15	Alighting Gear	Initial	AREA NO. 16	Fuselage (Bottom Side)	Initial
	Power on Check	Initial		Final Inspection	Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

TM 55-1520-248-PPM

Section XXIII

PROGRESSIVE INSPECTION CHECKLIST NUMBER 23

AIRCRAFT S/N: ____________ AIRCRAFT TOTAL TIME: ____________________ DATE: ________________________

Tools:

Hydraulic Test Stand
Maintenance Platform
Spring Scale (0-10 pounds)
Auxiliary Power Unit
Air Compressor
Spray Unit
Torque Wrench (30-150 inch-pounds)
Torque Wrench (100-750 inch-pounds)
Ohmmeter

Materials:

Wiping Rags
Cleaning Solvent
Clean Water
Methyl Alcohol (Below 40°F only)

Parts:

NONE

Personnel Required:

Scout Helicopter Repairer
Scout Helicopter Technical Inspector
Power Plant Repairer
Scout Helicopter Pilot

References:

DA PAM 738-751
TM 55-1500-204-25/1
TM 55-2840-256-23
TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE **INSPECTION NO. 23**	**AREA NAME AND NO.** **NOSE — 1**

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 **Aircraft log book for recorded discrepancies (DA PAM 738-751).**

1.2 **Auxiliary power unit door for positive latching and proper operation.**

1.3 **Auxiliary power unit receptacle for bent pins or other damage.**

Access 17

1.4 **Pitot tube for obstruction.**

1.5 **Landing light for broken lens and proper operation.**

1.6 **Pitot static drain lines for moisture.**

1.8 **ICS switch in battery compartment for security. Switch to OFF when not in use.**

Access 12

1.9 **Battery intake vent line and drain line for obstructions. Check battery for leakage and security.**

1.10 **Battery compartment access door for positive latching and proper operation.**

1.11 **Condition of battery access compartment door hinge and weather stripping.**

1.13 **Radar antennas for security and damage.**

1.14 **Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.**

1.15 **Chin bubbles and windshield for cracks, excessive scratches, and distortion.**

1.16 **FAT gage for security.**

1.17 **WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.**

1.18 **Air intake vents on vent drain tubes for obstruction.**

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

best copy available

PROGRESSIVE INSPECTION NO. 23	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 23	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 23	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 23	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

4.12 Engine oil drain lines for chafing and security of connections.

4.13 Fuel drain lines and hoses for chafing and security of connections.

4.14 Tailboom attachment fittings for corrosion, cracks, and loose rivets. Bolts for torque-stripe alignment.

Access 22

4.15 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

4.16 Pressurized fuel line for chafing, leakage, and security of connections. Apply required torque at all connections.

Access 19

4.18 Test connector receptacle ground (TM 55-1500-204-25/1).

4.19 Check refueling receiver and grounding strap for proper ground (TM 55-1500-204-25/1).

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 23	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 23	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 23	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 23

AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.10 Visually inspect tail rotor driveshaft hangar bearings, mounts, and coupling disc assemblies for damage, excessive wear, binding, and security.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 23	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 23	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 23	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 23	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

11.22 Clean engine compressor (TM 55-2840-256-23).

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 23	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.13 Inspect portable fire extinguisher (TM 55-1500-204-25/1).

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 23	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 23	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.12 Servoactuators for excessive external leakage.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 23	AREA NAME AND NO. PYLON — 14

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

PROGRESSIVE INSPECTION NO. 23	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 23	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 23	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.).
(TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 23	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)

AREA NO. 1	Nose	Initial	AREA NO. 2	Crew Compartment (Right Side)	Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	Initial	AREA NO. 4	Fuselage (Right Side)	Initial
AREA NO. 5	Engine (Right Side)	Initial	AREA NO. 6	Aft Fairing Assembly	Initial
AREA NO. 7	Tailboom (Right Side)	Initial	AREA NO. 8	Tailboom (Left Side)	Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	Initial	AREA NO. 10	Oil Systems (Left Side)	Initial
AREA NO. 11	Engine (Left Side)	Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	Initial
AREA NO. 13	Crew Compartment (Left Side)	Initial	AREA NO. 14	Pylon	Initial
AREA NO. 15	Alighting Gear	Initial	AREA NO. 16	Fuselage (Bottom Side)	Initial
	Power on Check	initial		Final Inspection	Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

Section XXIV

PROGRESSIVE INSPECTION CHECKLIST NUMBER 24

AIRCRAFT S/N: ______________ AIRCRAFT TOTAL TIME: ______________________ DATE: __________________________

Tools:
- Hydraulic Test Stand
- Maintenance Platform
- Spring Scale (0-10 pounds)
- Hand Grease Gun

Materials:
- Wiping Rags
- Grease, (MIL-G-81322)
- Lockwire

Parts:
NONE

Personnel Required:
- Scout Helicopter Repairer
- Scout Helicopter Technical Inspector
- Power Plant Repairer

References:
- DA PAM 738-751
- TM 55-2840-256-23
- TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE INSPECTION NO. 24	AREA NAME AND NO. NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.13 Radar antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 24	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 24	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 24 | **AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3**

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 24	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 24	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 24	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 24	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 24	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 24	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1	Tail rotor assembly for security. Inspect blades for damage.
8.10	Lubricate tail rotor pitch change mechanism.
8.12	Tail rotor control trunnion for security of control lever attachment and damage.
8.13	Trunnion boot for damage and security.
8.14	Directional control linkage for security and wear.
8.15	Tail rotor gearbox for security. Check oil level.
8.16	Oil filler cap for security.
8.22	General condition of skin for ripples, holes, loose or popped rivets.
8.23	Driveshaft cover for security and damage. Inspect hinges for cracks.
8.24	Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.
8.25	Red position light for cracked lens and security.
8.28	Electrical wiring for chafing and loose or corroded connections.
8.29	Dynamic balance tail rotor.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 24	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 24	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 24	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 24	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 24	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 24	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

14.37 Lubricate MMS support bearing.

14.38 Lubricate pitch change link bearings.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 24	AREA NAME AND NO. PYLON – 14

14.39 Lubricate swashplate bearing.

14.40 **FM antennas sealant and security.**

14.41 **WSPS upper cutter assembly for damage and security.**

14.42 **Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.**

14.43 **Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.**

PROGRESSIVE INSPECTION NO. 24	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 24	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 24	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.). (TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 24	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)

AREA NO. 1	Nose	Initial	AREA NO. 2	Crew Compartment (Right Side)	Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	Initial	AREA NO. 4	Fuselage (Right Side)	Initial
AREA NO. 5	Engine (Right Side)	Initial	AREA NO. 6	Aft Fairing Assembly	Initial
AREA NO. 7	Tailboom (Right Side)	Initial	AREA NO. 8	Tailboom (Left Side)	Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	Initial	AREA NO. 10	Oil Systems (Left Side)	Initial
AREA NO. 11	Engine (Left Side)	Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	Initial
AREA NO. 13	Crew Compartment (Left Side)	Initial	AREA NO. 14	Pylon	Initial
AREA NO. 15	Alighting Gear	Initial	AREA NO. 16	Fuselage (Bottom Side)	Initial
	Power on Check	Initial		Final Inspection	Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

Section XXV

PROGRESSIVE INSPECTION CHECKLIST NUMBER 25

AIRCRAFT S/N: ____________ **AIRCRAFT TOTAL TIME:** ____________________ **DATE:** ______________________

Tools:
- Hydraulic Test Stand
- Maintenance Platform
- Spring Scale (0-10 pounds)
- Auxiliary Power Unit
- Air Compressor
- Spray Unit
- Torque Wrench (30-150 inch-pounds)
- 13/16-inch Crow Foot Adapter Wrench
- Hand Grease Gun

Materials:
- Wiping Rags
- Cleaning Solvent
- Clean Water
- Methyl Alcohol (Below 40°F only)
- Lockwire
- Drycleaning Solvent (PD-680)
- Rubber Gloves
- Grease, (MIL-G-81322)
- Mineral Spirits

Parts:
- Packing
- Filter Element

Personnel Required:
- Scout Helicopter Repairer
- Scout Helicopter Technical Inspector
- Power Plant Repairer
- Scout Helicopter Pilot

References:
- DA PAM 738-751
- TM 55-2840-256-23
- TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE INSPECTION NO. 25	AREA NAME AND NO. NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.13 Radar antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

best copy available

PROGRESSIVE
INSPECTION NO. 25

AREA NAME AND NO.
CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 25	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 25

AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 25	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 25	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.4 Fuel lines and hoses for chafing, leakage, and security of connections. Apply required torque at all connections.

Access 24

5.5 All engine fuel, oil, and air hoses and tubing for damage and security. Apply required torque at all connections.

Access 24

5.6 Bleed air lines for chafing, leakage, and security of connections.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.9 Fuel control (Ng) lever and clevis-bolt hole for elongation. Inspect bolt on fuel control lever for fretting, corrosion, and wear.

Access 24

5.10 Power control cable boot for cuts, tears, cracks, and security. Ensure that the inside is not gummy.

Access 24

5.11 Clean fuel control filter assembly (TM 55-2840-256-23)

Access 24

5.12 Replace fuel pump filter element (TM 55-2840-256-23).

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 25	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 25	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 25	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.10 Visually inspect tail rotor driveshaft hanger bearings, mounts, and coupling disc assemblies for damage, excessive wear, binding, and security.

7.11 Lubricate tail rotor driveshaft hanger bearings.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 25	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 25	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 25	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 25	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

11.22 Clean engine compressor (TM 55-2840-256-23).

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 25	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 25	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) – 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 25	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 25	AREA NAME AND NO. PYLON — 14

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 25	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 25	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 25	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.).
(TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 25	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)
____________	____________	____________	____________

AREA NO. 1	Nose	____________ Initial	AREA NO. 2	Crew Compartment (Right Side)	____________ Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	____________ Initial	AREA NO. 4	Fuselage (Right Side)	____________ Initial
AREA NO. 5	Engine (Right Side)	____________ Initial	AREA NO. 6	Aft Fairing Assembly	____________ Initial
AREA NO. 7	Tailboom (Right Side)	____________ Initial	AREA NO. 8	Tailboom (Left Side)	____________ Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	____________ Initial	AREA NO. 10	Oil Systems (Left Side)	____________ Initial
AREA NO. 11	Engine (Left Side)	____________ Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	____________ Initial
AREA NO. 13	Crew Compartment (Left Side)	____________ Initial	AREA NO. 14	Pylon	____________ Initial
AREA NO. 15	Alighting Gear	____________ Initial	AREA NO. 16	Fuselage (Bottom Side)	____________ Initial
	Power on Check	____________ Initial		Final Inspection	____________ Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

Section XXVI

PROGRESSIVE INSPECTION CHECKLIST NUMBER 26

AIRCRAFT S/N: ______________ **AIRCRAFT TOTAL TIME:** ______________________ **DATE:** __________________________

Tools:
- Hydraulic Test Stand
- Maintenance Platform
- Spring Scale (0-10 pounds)
- Hand Grease Gun
- Special 7/16" Socket

Materials:
- Wiping Rags
- Grease, (MIL-G-81322)

Parts:
- NONE

Personnel Required:
- Scout Helicopter Repairer
- Scout Helicopter Technical Inspector
- Power Plant Repairer
- Aircraft Electrician

References:
- DA PAM 738-751
- TM 11-6140-203-14-2
- TM 55-2840-256-23
- TM 55-1500-204-25/1
- TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE
INSPECTION NO. 26

AREA NAME AND NO.
NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.12 Perform preventive maintenance checks and services on the nickel-cadmium battery (TM 11-6140-203-14-2).

1.13 Radar antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE	AREA NAME AND NO.
INSPECTION NO. 26	CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 26	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 26

AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 26	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 26	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 26	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 26	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 26	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 26	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 26	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.10 Perform preventive maintenance checks and services on nickle-cadmium battery, if installed (TM 11-6140-203-14-2).

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 26	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

PROGRESSIVE INSPECTION NO. 26	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE
INSPECTION NO. 26

AREA NAME AND NO. ACCESS DOOR AND
AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 26	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 26	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

14.37 Lubricate MMS support bearing.

14.38 Lubricate pitch change link bearings.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 26	AREA NAME AND NO. PYLON — 14

14.39 Lubricate swashplate bearing.

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

PROGRESSIVE INSPECTION NO. 26	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

15.6 Aft crosstube beam support bearing cap for wear.

15.7 Landing gear crosstubes for cracks, dents, and excessive spread.

15.8 Landing gear crosstube mounts for wear, cracks, corrosion, and security.

PROGRESSIVE INSPECTION NO. 26	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 26	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.).
(TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 26	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

DATE ____________ **MODEL** ____________ **AIRCRAFT SERIAL NUMBER** ____________ **PPM NUMBER(S)** ____________

AREA NO. 1	Nose	________ Initial	AREA NO. 2	Crew Compartment (Right Side)	________ Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	________ Initial	AREA NO. 4	Fuselage (Right Side)	________ Initial
AREA NO. 5	Engine (Right Side)	________ Initial	AREA NO. 6	Aft Fairing Assembly	________ Initial
AREA NO. 7	Tailboom (Right Side)	________ Initial	AREA NO. 8	Tailboom (Left Side)	________ Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	________ Initial	AREA NO. 10	Oil Systems (Left Side)	________ Initial
AREA NO. 11	Engine (Left Side)	________ Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	________ Initial
AREA NO. 13	Crew Compartment (Left Side)	________ Initial	AREA NO. 14	Pylon	________ Initial
AREA NO. 15	Alighting Gear	________ Initial	AREA NO. 16	Fuselage (Bottom Side)	________ Initial
	Power on Check	________ Initial		Final Inspection	________ Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

Section XXVII

PROGRESSIVE INSPECTION CHECKLIST NUMBER 27

AIRCRAFT S/N: ______________ AIRCRAFT TOTAL TIME: ______________________ DATE: __________________________

Tools:

- Hydraulic Test Stand
- Maintenance Platform
- Spring Scale (0-10 pounds)
- Auxiliary Power Unit
- Air Compressor
- Spray Unit
- Torque Wrench (30-150 inch-pounds)
- Spring Scale (0-50 pounds)
- Mercury Centigrade Thermometer

Materials:

- Wiping Rags
- Cleaning Solvent
- Clean Water
- Methyl Alcohol (Below 40°F only)
- Lockwire
- Corrosion Preventive Compound (MIL-C-11796)
- Masking Tape

Parts:

- Cotter Pin
- Nuts

Personnel Required:

- Scout Helicopter Repairer
- Scout Helicopter Technical Inspector
- Power Plant Repairer
- Scout Helicopter Pilot

References:

- DA PAM 738-751
- TM 55-1500-204-25/1
- TM 55-2840-256-23
- TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE INSPECTION NO. 27	AREA NAME AND NO. NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 **Aircraft log book for recorded discrepancies (DA PAM 738-751).**

1.2 **Auxiliary power unit door for positive latching and proper operation.**

1.3 **Auxiliary power unit receptacle for bent pins or other damage.**

Access 17

1.4 **Pitot tube for obstruction.**

1.5 **Landing light for broken lens and proper operation.**

1.6 **Pitot static drain lines for moisture.**

1.8 **ICS switch in battery compartment for security. Switch to OFF when not in use.**

Access 12

1.9 **Battery intake vent line and drain line for obstructions. Check battery for leakage and security.**

1.10 **Battery compartment access door for positive latching and proper operation.**

1.11 **Condition of battery access compartment door hinge and weather stripping.**

1.13 **Radar antennas for security and damage.**

1.14 **Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.**

1.15 **Chin bubbles and windshield for cracks, excessive scratches, and distortion.**

1.16 **FAT gage for security.**

1.17 **WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.**

1.18 **Air intake vents on vent drain tubes for obstruction.**

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

best copy available

PROGRESSIVE INSPECTION NO. 27	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.13 Test FAT gage (TM 55-1500-204-25/1).

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 27	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE
INSPECTION NO. 27

AREA NAME AND NO. ACCESS DOOR AND
AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 27	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE
INSPECTION NO. 27

AREA NAME AND NO.
ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 DELETED

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 27	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 27	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 27	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.10 Visually inspect tail rotor driveshaft hanger bearings, mounts, and coupling disc assemblies for damage, excessive wear, binding, and security.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 27	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 27	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 27	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 27	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

11.22 Clean engine compressor (TM 55-2840-256-23).

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE
INSPECTION NO. 27

AREA NAME AND NO. ACCESS DOOR AND
AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 27	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 27	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.3 Mast-to-transmission seal for damage, excessive wear, binding, security, and leakage.

14.4 Transmission pylon mount area for cracks, corrosion, and security.

14.5 Transmission input quill seal for leakage.

14.6 Collective lever (at transmission) for cracks, corrosion, and security. Bearings for binding or excessive wear.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.11 Servoactuator slotted head bolts through pilot input lever (sloppy links) for freedom to rotate and for security.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.21 Swashplate duplex bearing for smoothness. Disconnect idler links and rotor pitch links. Free lower end of boot. Rotate outer ring in both directions.

14.22 Swashplate uniball for proper friction.

14.23 Main rotor mast seal. Check at swashplate support drain holes for evidence of leakage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 27	AREA NAME AND NO. PYLON — 14

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.27 Flight control bellcranks for damage, condition of bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.29 Disconnect pitch links and drive links from swashplate. Inspect links for freedom of movement, clearance, and wear.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.31 Main hub stops and buffers for wear.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

14.36 MMS inspection bolt for leaks, desiccant for proper color. (If replacement is required, inspect internal sensor desiccant).

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

14.44 Swashplate for inner ring rotational movement.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 27	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 27	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselege for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 27	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.).
(TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 27	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)
________	________	________	________

AREA NO. 1	Nose	________ Initial	AREA NO. 2	Crew Compartment (Right Side)	________ Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	________ Initial	AREA NO. 4	Fuselage (Right Side)	________ Initial
AREA NO. 5	Engine (Right Side)	________ Initial	AREA NO. 6	Aft Fairing Assembly	________ Initial
AREA NO. 7	Tailboom (Right Side)	________ Initial	AREA NO. 8	Tailboom (Left Side)	________ Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	________ Initial	AREA NO. 10	Oil Systems (Left Side)	________ Initial
AREA NO. 11	Engine (Left Side)	________ Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	________ Initial
AREA NO. 13	Crew Compartment (Left Side)	________ Initial	AREA NO. 14	Pylon	________ Initial
AREA NO. 15	Alighting Gear	________ Initial	AREA NO. 16	Fuselage (Bottom Side)	________ Initial
	Power on Check	________ Initial		Final Inspection	________ Initial

PRINTED NAME	SIGNATURE	INITIAL
________	________	________
________	________	________
________	________	________
________	________	________
________	________	________
________	________	________

Figure 6. Signature Sheet

Section XXVIII

PROGRESSIVE INSPECTION CHECKLIST NUMBER 28

AIRCRAFT S/N:______________ **AIRCRAFT TOTAL TIME:** ____________________ **DATE:** ________________________

Tools:
Hydraulic Test Stand
Maintenance Platform
Spring Scale (0-10 pounds)
Hand Grease Gun

Materials:
Wiping Rags
Grease, (MIL-G-81322)

Parts:
NONE

Personnel Required:
Scout Helicopter Repairer
Scout Helicopter Technical Inspector
Power Plant Repairer

References:
DA PAM 738-751
TM 55-2840-256-23
TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE **INSPECTION NO. 28**	**AREA NAME AND NO.** **NOSE — 1**

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 **Aircraft log book for recorded discrepancies (DA PAM 738-751).**

1.2 **Auxiliary power unit door for positive latching and proper operation.**

1.3 **Auxiliary power unit receptacle for bent pins or other damage.**

Access 17

1.4 **Pitot tube for obstruction.**

1.5 **Landing light for broken lens and proper operation.**

1.6 **Pitot static drain lines for moisture.**

1.8 **ICS switch in battery compartment for security. Switch to OFF when not in use.**

Access 12

1.9 **Battery intake vent line and drain line for obstructions. Check battery for leakage and security.**

1.10 **Battery compartment access door for positive latching and proper operation.**

1.11 **Condition of battery access compartment door hinge and weather stripping.**

1.13 **Radar antennas for security and damage.**

1.14 **Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.**

1.15 **Chin bubbles and windshield for cracks, excessive scratches, and distortion.**

1.16 **FAT gage for security.**

1.17 **WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.**

1.18 **Air intake vents on vent drain tubes for obstruction.**

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 28	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 28	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

PROGRESSIVE
INSPECTION NO. 28

AREA NAME AND NO. ACCESS DOOR AND
AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 28	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 28	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 28	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

PROGRESSIVE INSPECTION NO. 28	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 28	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 28	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 28	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 28	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 28	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 28	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintanance and inspection.

PROGRESSIVE INSPECTION NO. 28	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 28	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.12 Servoactuators for excessive external leakage.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 28	AREA NAME AND NO. PYLON — 14

14.37 Lubricate MMS support bearing.

14.38 Lubricate pitch change link bearings.

14.39 Lubricate swashplate bearing.

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

"FOD REMINDER"
Check work area fcr tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 28	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

PROGRESSIVE INSPECTION NO. 28	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

16.5 Lower fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

16.6 Lower fuselage structure for cracks, corrosion, voids, dents, punctures, and loose or missing rivets.

16.7 WSPS lower cutter assembly for damage, security, and breakaway tip for presence.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 28	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.).
(TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 28	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"
Check work area fcr tools and parts after completion of maintenance and inspection.

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)

AREA NO. 1	Nose	Initial	AREA NO. 2	Crew Compartment (Right Side)	Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	Initial	AREA NO. 4	Fuselage (Right Side)	Initial
AREA NO. 5	Engine (Right Side)	Initial	AREA NO. 6	Aft Fairing Assembly	Initial
AREA NO. 7	Tailboom (Right Side)	Initial	AREA NO. 8	Tailboom (Left Side)	Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	Initial	AREA NO. 10	Oil Systems (Left Side)	Initial
AREA NO. 11	Engine (Left Side)	Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	Initial
AREA NO. 13	Crew Compartment (Left Side)	Initial	AREA NO. 14	Pylon	Initial
AREA NO. 15	Alighting Gear	Initial	AREA NO. 16	Fuselage (Bottom Side)	Initial
	Power on Check	Initial		Final Inspection	Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

Section XXIX

PROGRESSIVE INSPECTION CHECKLIST NUMBER 29

AIRCRAFT S/N: ____________ AIRCRAFT TOTAL TIME: ____________ DATE: ____________

Tools:
- Hydraulic Test Stand
- Maintenance Platform
- Spring Scale (0-10 pounds)
- Auxiliary Power Unit
- Air Compressor
- Spray Unit
- Torque Wrench (30-150 inch-pounds)
- Container
- Drain Hose
- Hand Grease Gun

Materials:
- Wiping Rags
- Cleaning Solvent
- Clean Water
- Methyl Alcohol (Below 45°F only)
- Lubricating Oil, (MIL-L-23699/MIL-L-7808)
- Grease, (MIL-G-81322)
- Hydraulic Fluid, (MIL-H-83282/MIL-H-5606)
- Lockwire
- Mineral Spirits

Parts:
- Packing

Personnel Required:
- Scout Helicopter Repairer
- Scout Helicopter Technical Inspector
- Power Plant Repairer
- Scout Helicopter Pilot
- Aircraft Pneudraulics Repairer

References:
- DA PAM 738-751
- TM 55-2840-256-23
- TM 55-1520-248-10

THIS CHECKLIST CONTAINS 24 PAGES

PROGRESSIVE INSPECTION NO. 29	AREA NAME AND NO. NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 **Aircraft log book for recorded discrepancies (DA PAM 738-751).**

1.2 **Auxiliary power unit door for positive latching and proper operation.**

1.3 **Auxiliary power unit receptacle for bent pins or other damage.**

Access 17

1.4 **Pitot tube for obstruction.**

1.5 **Landing light for broken lens and proper operation.**

1.6 **Pitot static drain lines for moisture.**

1.8 **ICS switch in battery compartment for security. Switch to OFF when not in use.**

Access 12

1.9 **Battery intake vent line and drain line for obstructions. Check battery for leakage and security.**

1.10 **Battery compartment access door for positive latching and proper operation.**

1.11 **Condition of battery access compartment door hinge and weather stripping.**

1.13 **Radar antennas for security and damage.**

1.14 **Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.**

1.15 **Chin bubbles and windshield for cracks, excessive scratches, and distortion.**

1.16 **FAT gage for security.**

1.17 **WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.**

1.18 **Air intake vents on vent drain tubes for obstruction.**

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

best copy available

PROGRESSIVE INSPECTION NO. 29	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 29	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 29

AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 29	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 29	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 29	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 29	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE
INSPECTION NO. 29

AREA NAME AND NO.
TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.10 Visually inspect tail rotor driveshaft hanger bearings, mounts, and coupling disc assemblies for damage, excessive wear, binding, and security.

7.11 Lubricate tail rotor driveshaft hanger bearings.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 29	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 **Tail rotor assembly for security. Inspect blades for damage.**

8.10 Lubricate tail rotor pitch change mechanism.

8.12 **Tail rotor control trunnion for security of control lever attachment and damage.**

8.13 **Trunnion boot for damage and security.**

8.14 **Directional control linkage for security and wear.**

8.15 **Tail rotor gearbox for security. Check oil level.**

8.16 **Oil filler cap for security.**

8.19 Change tail rotor gearbox oil.

8.20 Clean tail rotor gearbox chip detector.

8.21 Oil sight glass for discoloration and cleanliness.

8.22 **General condition of skin for ripples, holes, loose or popped rivets.**

8.23 **Driveshaft cover for security and damage. Inspect hinges for cracks.**

8.24 **Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.**

8.25 **Red position light for cracked lens and security.**

8.28 **Electrical wiring for chafing and loose or corroded connections.**

8.29 Dynamic balance tail motor.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 29	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 [illegible]t control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 29	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

10.6 Perform a functional check of oil bypass valve.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE
INSPECTION NO. 29

AREA NAME AND NO.
ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.8 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

11.22 Clean engine compressor (TM 55-2840-256-23).

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 29	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 29	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 29	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.13 Hydraulic reservoir bottom for corrosion.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 29	AREA NAME AND NO. PYLON — 14

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 29	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 29	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 29	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.). (TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 29	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)

AREA NO. 1	Nose	Initial	AREA NO. 2	Crew Compartment (Right Side)	Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	Initial	AREA NO. 4	Fuselage (Right Side)	Initial
AREA NO. 5	Engine (Right Side)	Initial	AREA NO. 6	Aft Fairing Assembly	Initial
AREA NO. 7	Tailboom (Right Side)	Initial	AREA NO. 8	Tailboom (Left Side)	Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	Initial	AREA NO. 10	Oil Systems (Left Side)	Initial
AREA NO. 11	Engine (Left Side)	Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	Initial
AREA NO. 13	Crew Compartment (Left Side)	Initial	AREA NO. 14	Pylon	Initial
AREA NO. 15	Alighting Gear	Initial	AREA NO. 16	Fuselage (Bottom Side)	Initial
	Power on Check	Initial		Final Inspection	Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

Section XXX

PROGRESSIVE INSPECTION CHECKLIST NUMBER 30

AIRCRAFT S/N: ______________ **AIRCRAFT TOTAL TIME:** ______________________ **DATE:** ________________________

Tools:
- Hydraulic Test Stand
- Maintenance Platform
- Spring Scale (0-10 pounds)
- Hand Grease Gun
- Special 7/16" Socket
- Ohmmeter

Materials:
- Wiping Rags
- Grease, (MIL-G-81322)
- Lockwire

Parts:
- None

Personnel Required:
- Scout Helicopter Repairer
- Scout Helicopter Technical Inspector
- Power Plant Repairer
- Scout Helicopter Pilot
- Aircraft Electrician

References:
- DA PAM 738-751
- TM 11-6140-203-14-2
- TM 55-1500-204-25/1
- TM 55-2840-256-23
- TM 55-1520-248-MTF
- TM 55-1500-328-25
- TM 55-1520-248-10

THIS CHECKLIST CONTAINS 28 PAGES

PROGRESSIVE INSPECTION NO. 30	AREA NAME AND NO. NOSE — 1

NOTE

Fuel tanks shall be fully serviced prior to start of inspection. If maintenance is to be accomplished which requires defueling, servicing may be deferred until after such maintenance is completed.

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

Access 17

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.8 ICS switch in battery compartment for security. Switch to OFF when not in use.

Access 12

1.9 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.10 Battery compartment access door for positive latching and proper operation.

1.11 Condition of battery access compartment door hinge and weather stripping.

1.12 Perform preventive maintenance checks and services on the nickel-cadmium battery (TM 11-6140-203-14-2.)

Access 12

1.13 Radar antennas for security and damage.

1.14 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.15 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.16 FAT gage for security.

1.17 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.18 Air intake vents on vent drain tubes for obstruction.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 30	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.14 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.15 FM antenna leads for security.

2.16 Magnetic compass for security and damage. Correction card for availability and legibility.

2.19 Clock for security. Set clock to correct time.

2.20 MFD and MPD and other instruments on panel for security.

2.21 Electrical and avionics panels on center console for security.

2.22 Instrument panel glareshield for cracks and security.

2.23 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.25 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 30	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.26 Collective stick for security and boot for damage. Jackshaft support for damage. Jackshaft for damage, corrosion, and security.

2.27 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.30 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.31 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 30

AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.14 Mounting bolts for transverse beams, in roof, for security.

3.15 Heat control cable for condition and security.

3.18 Fuel cell access area for leakage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 30	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

4.18 Test connector receptacle ground (TM 55-1500-204-25/1).

4.19 Check refueling receiver and grounding strap for proper ground (TM 55-1500-204-25/1).

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 30	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 **DELETED**

5.3 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

Access 24

5.7 Combustion chamber for cracks and evidence of overheating.

Access 24

5.8 Fuel control for security and evidence of leaks.

Access 24

5.13 Fuel filter for security and evidence of leaks.

Access 24

5.14 Starter-generator and electrical leads for security and evidence of overheating.

Access 24

5.17 Driveshaft coupling for security.

Access 24

5.18 Exhaust ejector for cracks and security.

Access 24

5.26 Engine fairing for cracks, damage, and fit.

5.29 Vortex generators in particle separator for obstruction and damage.

Access 25

5.30 NG control cable assembly for wear, binding, and security.

Access 24

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 30	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.31 NG control cable and end fitting for security and damage.

Access 24

5.32 NG control cable mount bracket for security and damage.

Access 24

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 30	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

Access 23

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 30	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security. Mounts for damage and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.12 Vertical stabilizer, antenna couplings, and tail skid for security.

7.14 Bolts in tail rotor control links for damage and security.

7.15 Tail cone for security of attachment. Inspect position light for cracked lens and security.

7.16 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 30	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.12 Tail rotor control trunnion for security of control lever attachment and damage.

8.13 Trunnion boot for damage and security.

8.14 Directional control linkage for security and wear.

8.15 Tail rotor gearbox for security. Check oil level.

8.16 Oil filler cap for security.

8.22 General condition of skin for ripples, holes, loose or popped rivets.

8.23 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.24 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.25 Red position light for cracked lens and security.

8.28 Electrical wiring for chafing and loose or corroded connections.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 30	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.4 Flight control tubes for security, corrosion, and damage. Bearings for binding or excessive wear.

Access 7

9.7 Electrical circuit breakers and connectors for security.

Access 7

9.8 Avionics and electrical components for security.

Access 7

9.9 Battery tiedown and connector for security.

Access 7

9.10 Perform preventive maintenance checks and services on nickle-cadmium battery, if installed (TM 11-6140-203-14-2).

Access 7

9.13 Avionics compartment door and access panels for security.

9.14 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.15 Check skin for ripples and cracks.

9.16 Aft fuselage skin for cracks, punctures, and loose or missing rivets. Paint and decals for chipped or peeling condition.

9.17 Check bleed air heater intake for cracks. inspect grounding point for corrosion.

9.18 Pad on lower step for wear.

9.19 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 30	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

Access 2

10.2 Flex coupling of tail rotor driveshaft for security and damage.

Access 2, 3

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

Access 2, 3

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

PROGRESSIVE INSPECTION NO. 30	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

Access 1

11.6 Check ac generator and electrical leads for security, evidence of overheating, and damage.

Access 1

11.7 All electrical connectors for security.

11.3 Wiring for chafed and broken insulation and damage.

11.9 Drain lines in engine deck for obstructions.

11.10 Combustion chamber for cracks and evidence of overheating.

Access 1

11.11 Engine mounts for security.

Access 1

11.15 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.16 Freewheeling unit for security and leakage.

Access 1

11.18 Engine fairing for cracks, damage, and fit.

11.19 Vortex generators in particle separator for obstructions and damage.

11.20 Inspect all cowls, fairings, and access panels for cracks, punctures, and missing or stripped fasteners.

11.21 After installing, inspect all cowls, fairings, and access panels for condition, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 30

AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.13 Inspect portable fire extinguisher (TM 55-1500-204-25/1).

12.14 Heater duct for cracks and security.

12.15 Mounting bolts for transverse beams, in roof for security.

12.16 FM coupler housing for security and connection.

12.17 Tail rotor control bellcranks for damage, condition of bearings, and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 30	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 30	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.7 Check oil level in sight glass on transmission. R/H side of helicopter.

14.8 Check hydraulic actuators and hydraulic lines for evidence of leaks and security.

14.9 Check oil level in sight glass on hydraulic reservoir.

14.10 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.14 Particle separator blower motor and duct for security and damage.

14.15 Engine air inlet bellmouth for damage and obstruction and plenum area for loose objects.

14.16 Sand and dust separator for cracks, punctures, loose or missing hardware, and security. Particle ejection opening for obstructions and damaged swirl tubes.

14.17 Eductor port for cuts, tears, cracks, and security.

14.18 Swashplate and support, pitch link bearing, and boot for tears, obvious damage, binding, excessive wear, and security.

14.19 Swashplate and support assembly for visible damage and security. Connecting linkage for binding or worn bearings.

14.20 Swashplate connecting linkage for binding, excessive wear, and security.

14.24 Main rotor mast (exposed portion) for chafing, nicks, scratches, and cleanliness.

14.26 Flight control push-pull tubes for damage, binding or worn bearings, and security.

14.28 Check control linkage and rod end bearings for obvious damage, binding, excessive wear, and security.

14.30 Main rotor hub for obvious damage, security, and corrosion/erosion damage.

14.33 Main rotor blades for damage, erosion wear, and cleanliness.

14.34 Pitch change links for cracks, distortion, and security.

14.35 MMS for condition and security. Inspect lens on MMS sight for cracks and dirt.

14.37 Lubricate MMS support bearing.

14.38 Lubricate pitch change link bearings.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 30	AREA NAME AND NO. PYLON — 14

14.39 Lubricate swashplate bearing.

14.40 FM antennas sealant and security.

14.41 WSPS upper cutter assembly for damage and security.

14.42 Roof skin for cracks, punctures, voids, dents, and other damage, loose or missing rivets. Paint for chipped or peeling condition.

14.43 Check electrical cable assemblies for connector chafing, damage, corroded connectors, and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 30	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 30	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 30	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.). (TM 55-1520-248-10)

P.10 Engine chip detectors circuit for continuity by shorting out each chip detector, one at a time, to check caution message on multifunction display (MFD).

P.11 Transmission chip detectors circuit for continuity by shorting out each chip detector, one at a time, to check caution message on MFD.

P.12 Tail rotor gearbox chip detector circuit for continuity by shorting out chip detector, to check caution message on MFD.

P.13 Anti-icing solenoid for proper operation.

P.14 Fuel shutoff valve outlet port for leakage.

P.15 Ensure that the engine fuel pump filter bypass switch lights the caution light when fuel filter pressure switch is in the bypass mode.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 30	AREA NAME AND NO. FINAL INSPECTION

F.1 Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.

F.3 Install protective covers and blade tiedowns as required.

F.4 Cabin and cockpit areas for loose equipment and cleanliness.

F.5 Check batteries are disconnected as required.

F.7 Post-Inspection Maintenance Test Flight (MTF) required in accordance with TM 55-1520-248-MTF and TM 55-1500-328-25.

F.8 Complete Final Records Checklist (Figure 5) and Serial Number Checklist (Figure 8).

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

OH-58D MTF CHECKSHEET

PURPOSE OF TEST FLIGHT	ACFT S/N:	DATE:
PILOT:	UNIT:	

SYMBOLS: ✓ = SATISFACTORY X = DEFICIENCY

	PRIOR TO MAINTENANCE		**INFLIGHT CHECKS**
	TEST FLIGHT		1. RAD ALT CHECK
	1. FORMS AND RECORDS		2. CONTROL RIGGING
	2. FLIGHT READINESS INSPECTION		3. SCAS
	BEFORE STARTING ENGINE CHECK		4. COLLECTIVE ANTICIPATOR CHECK
	1. FAT ________ °C		5. HYDRAULIC SYS CHECK
	2. ALTIMETER		6. AUTOROTATION NR ________ %
	3. CWA SYSTEM		7. VIBRATION ANALYSIS
	4. ENGINE HISTORY		8. PYLON ISOLATION MOUNT CHECK
	5. MPD		9. FLIGHT INSTRUMENTS
	STARTING ENGINE AND RUN UP		VSD PAGE
	CHECKS		AIRSPEED INDICATION
	1. START PEAK TGT _____ °C		HEADING INDICATION
	START TIME _____		BAROMETRIC ALTIMETER
	2. CYCLIC FWD _____ (lb) AFT _____ (lb)		VSI
	R _____ (lb) L _____ (lb)		ATTITUDE INDICATOR
	COLLECTIVE _____ (lb) T/R _____ (lb)		STANDBY FLIGHT INSTRUMENTS
	3. HYDRAULIC SYSTEM		SLIP INDICATOR
	4. ENG IDLE SPEED CHECK		STANDBY AIRSPEED INDICATOR
	5. CONTROL OVERSPEED CHECK		STANDBY ATTITUDE INDICATOR
	6. SCAS		STANDBY ALTIMETER
	HEADING HOLD		MAGNETIC COMPASS
	SCAS TEST		10. COMMUNICATION
	7. COMPT BLWR		FM-1 ____ UHF _____
	8. DEFOG BLWR		FM-2 ____ HF _____
	9. HTR		VHF ____ FM HOMING _____
	10. PITOT HTR		KY58 ____ TRANSPONDER _____
	11. FUEL BOOST		KY75 ____ APR-39 _____
	12. ENGINE ANTI ICE		ATHS ________
	13. BATT PRHT		11. NAV SYSTEM
	14. INSTRUMENTS R/U		WAYPOINT 1 ____________
	XMSN OIL P _____ PSI		2 _____
	XMSN OIL T _____ °C		3 _____
	ENG OIL P _____ PSI		CIRCULAR ERROR____________
	ENG OIL T _____ °C		**ENGINE SHUTDOWN CHECKS**
	NG _____ % TGT _____ °C		1. INSTRUMENTS S/D
	MAST TRQ _____ %		XMSN OIL P _____ PSI
	ENG TRQ _____ %		XMSN OIL T _____ °C
	15. POWER ASSURANCE CHECK		ENG OIL P _____ PSI
	ALTIMETER _____ (Hg) in.		ENG OIL T _____ °C
	PA _____ ft. OAT _____ °C		NG _____ % TGT _____ °C
	TGT _____ °C NG_______ %		MAST TRQ __________ %
	QE (chart) _____ %		ENG TRQ __________ %
	QE (indicated) _____ %		BATT V _____
	ENG HEALTH _____ %		2. THROTTLE CHECK
	AIRCRAFT HOVER CHECKS		3. POST TEST FLIGHT INSP.
	1. HOVER POWER NG _____ %		4. COMPLETE UPDATE FORMS
	TGT _____ °C TRQ _____ %		AND RECORDS
	2. CONTROL RESPONSE CHECK		5. SPECIAL EQUIPMENT LIST
	3. SCAS		
	4. POWER CYLINDER CHECK		
	5. ENGINE RESPONSE		
	/FUEL CONTROL CHECK		
	6. HOVER BOP – UP		
	7. MMS OPERATIONAL CHECK________		
	8. DOPPLER UPDATE____________		

Figure 3. Maintenance Test Flight Recording Sheet

ROTOR SMOOTHING RECORD

RED BLADE
SERIAL NUMBER

ADJUSTMENT NUMBER	TAB	ROLL	BALANCE	EFFECT
1				
2				
3				
4				
5				

BLUE BLADE
SERIAL NUMBER

ADJUSTMENT NUMBER	TAB	ROLL	BALANCE	EFFECT
1				
2				
3				
4				
5				

ORANGE BLADE
SERIAL NUMBER

ADJUSTMENT NUMBER	TAB	ROLL	BALANCE	EFFECT
1				
2				
3				
4				
5				

GREEN BLADE
SERIAL NUMBER

ADJUSTMENT NUMBER	TAB	ROLL	BALANCE	EFFECT
1				
2				
3				
4				
5				

REMARKS

PILOTS SIGNATURE

Figure 4. Rotor Smoothing Record

Final Records Checklist

This checklist is provided to ensure the indicated forms and records have been inspected for presence, completeness, legibility and accuracy prior to releasing the helicopter from a phased inspection. Verification of inspection will be indicated by placing the initials of the inspector in the appropriate initial block.

AIRCRAFT LOG BOOK	INITIAL	HISTORICAL RECORDS	INITIAL
DA FORM 2408		DA FORM 2408-5	
DA FORM 2408-12			
DA FORM 2408-13			
DA FORM 2408-14		DA FORM 2408-9	
DA FORM 2408-18		DA FORM 2408-15	
TM 55-1520-248-PPM		DA FORM 2408-16	
		DA FORM 2408-17	
TM 55-1520-248-MTF			
LOCALLY REQUIRED FORMS		LOCALLY REQUIRED FORMS	

PRODUCTION CONTROL RECORDS	INITIAL	QUALITY CONTROL	INITIAL
FLOW CHART		TBO FILE	
STATUS BOARD		QA FILE	
WORK ORDER FILE		SERIAL NUMBER FILE	
MWO FILE		INVENTORY RECORDS	
CONFIGURATION CHART		WEIGHT AND BALANCE	
2405 LOG		MSG FILE	
1352 REPORTS		DA FORM 2410 SUBMITTED	
LOCAL RECORDS		LOCAL RECORDS	

Figure 5. Final Records Checklist

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)
________	________	________	________

AREA NO. 1	Nose	________ Initial	AREA NO. 2	Crew Compartment (Right Side)	________ Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	________ Initial	AREA NO. 4	Fuselage (Right Side)	________ Initial
AREA NO. 5	Engine (Right Side)	________ Initial	AREA NO. 6	Aft Fairing Assembly	________ Initial
AREA NO. 7	Tailboom (Right Side)	________ Initial	AREA NO. 8	Tailboom (Left Side)	________ Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	________ Initial	AREA NO. 10	Oil Systems (Left Side)	________ Initial
AREA NO. 11	Engine (Left Side)	________ Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	________ Initial
AREA NO. 13	Crew Compartment (Left Side)	________ Initial	AREA NO. 14	Pylon	________ Initial
AREA NO. 15	Alighting Gear	________ Initial	AREA NO. 16	Fuselage (Bottom Side)	________ Initial
	Power on Check	________ Initial		Final Inspection	________ Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

best copy available

OH-58D SERIAL NUMBER CHECKLIST

ACFT. S/N ____________ ACFT. TIME ________ PHASE ________ CYCLE ________ DATE ________

MAIN ROTOR GRIP NO. 1 (Red) ______________
MAIN ROTOR GRIP NO. 2 (Orange) ______________
MAIN ROTOR GRIP NO. 3 (Blue) ______________
MAIN ROTOR GRIP NO. 4 (Green) ______________
MAIN ROTOR HUB ASSY. ______________
MAIN ROTOR YOKE ______________
MAIN ROTOR UPPER PLATE ______________
MAIN ROTOR LOWER PLATE ______________
SHEAR BEARING ASSY ______________
SHEAR BEARING ASSY ______________
SHEAR BEARING ASSY ______________
SHEAR BEARING ASSY ______________
DRIVE RING SET ______________

SWASHPLATE AND SUPPORT ASSY. ______________
SWASHPLATE OUTER RING ______________
SWASHPLATE INNER RING ______________
ANTIDRIVE LINK ______________
ANTIDRIVE LEVER ______________

CYCLIC SERVOACTUATOR ______________
CYCLIC SERVOACTUATOR ______________
COLLECTIVE ACTUATOR ______________

TAIL ROTOR ACTUATOR ______________
TAIL ROTOR GEARBOX ______________
TAIL ROTOR HUB ______________
MAIN TRANSMISSION ______________
FREE WHEELING SHAFT ASSY. ______________
MAST ASSY. ______________

INPUT DRIVESHAFT ______________
STAND PIPE ASSY ______________

LEFT SIDE BEAM ______________
RIGHT SIDE BEAM ______________
FORWARD TRANSVERSE BEAM ______________
AFT TRANSVERSE BEAM ______________
RESTRAINT SPRING ASSY ______________
RESTRAINT SPRING ASSY ______________
CORNER MOUNT ______________
CORNER MOUNT ______________
CORNER MOUNT ______________
CORNER MOUNT ______________
TRANSMISSION TOP CASE ______________

ENGINE ______________

Figure 8. Serial Number Checklist

Section XXXI

PROGRESSIVE INSPECTION CHECKLIST NUMBER 14 DAY

AIRCRAFT S/N: ____________ **AIRCRAFT TOTAL TIME:** ____________ **DATE:** ____________

Tools:
- Hydraulic Test Stand
- Maintenance Platform
- Spring Scale (0-10 pounds)

Materials:
- Wiping Rags

Parts:
- None

Personnel Required:
- Scout Helicopter Repairer
- Scout Helicopter Technical Inspector
- Power Plant Repairer

References:
- DA PAM 738-751
- TM 55-2840-256-23
- TM 55-1520-248-10

THIS CHECKLIST CONTAINS 22 PAGES

PROGRESSIVE
INSPECTION NO. 14 DAY

AREA NAME AND NO.
NOSE — 1

1.1 Aircraft log book for recorded discrepancies (DA PAM 738-751).

1.2 Auxiliary power unit door for positive latching and proper operation.

1.3 Auxiliary power unit receptacle for bent pins or other damage.

1.4 Pitot tube for obstruction.

1.5 Landing light for broken lens and proper operation.

1.6 Pitot static drain lines for moisture.

1.7 ICS switch in battery compartment for security. Switch to OFF when not in use.

1.8 Battery intake vent line and drain line for obstructions. Check battery for leakage and security.

1.9 Battery compartment access door for positive latching and proper operation.

1.10 Condition of battery access compartment door hinge and weather stripping.

1.11 Radar antennas for security and damage.

1.12 Lower WSPS for security. Inspect coating on wire strike protector for blade exposure, breakaway tip for presence and security.

1.13 Chin bubbles and windshield for cracks, excessive scratches, and distortion.

1.14 FAT gage for security.

1.15 WSPS windshield deflector for damage and security. Coating on wire strike protector for blade exposure.

1.16 Air intake vents on vent drain tubes for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14 DAY	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.1 Door hinges for security and wear. Check handle, latch, and locking brackets for security and wear.

2.2 Door for fit and ease of operation. Windows and vents for damage and cleanliness. Check condition of weather stripping.

2.3 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

2.4 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

2.5 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

2.6 Overhead windows for cracks and evidence of leaking water.

2.7 All components attached to roof for security.

2.8 Heater ducts for cracks and security.

2.9 Fuel shutoff lever bracket for damage and security.

2.10 Fuel shutoff lever for security, damage, and proper operation.

2.11 Heater rheostat on center post for security and proper operation.

2.12 FAT gage for legibility of markings and cracked or broken glass.

2.13 Door jettison handle for security and pin for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

2.14 FM antenna leads for security.

2.15 Magnetic compass for security and damage. Correction card for availability and legibility.

2.16 Clock for security. Set clock to correct time.

2.17 MFD and MPD and other instruments on panel for security.

2.18 Electrical and avionics panels on center console for security.

2.19 Directional control pedals and bellcrank for freedom of movement. Check pedal adjustment for ease of operation.

2.20 Cyclic stick for security and boot for damage. Check cyclic friction for proper operation.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14 DAY	AREA NAME AND NO. CREW COMPARTMENT (RIGHT SIDE) — 2

2.21 Collective stick for security and boot for damage. Jackshaft support for damage.

2.22 Cyclic and collective stick friction adjuster for damage and proper operation. Collective friction checked using spring scale.

2.23 Throttle grip for missing cork material, smoothness of operation, and detent button for positive operation.

2.24 Flight control push-pull tubes and bell cranks for chafing, damage, excessive wear, binding, corrosion, and security. Bearings for binding, or excessive wear.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14 DAY	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (RIGHT SIDE) — 3

3.1 Skin on door for cracks and damage. Inspect door latches and hinges for cracks and wear.

3.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

3.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Check condition of weather stripping.

3.4 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

3.5 Around backlash adapter for static oil seepage from transmission.

3.6 MMS power supply and MMS processor for security and loose connections.

3.7 Master Control Processor Unit for security and loose connection.

3.8 Components on aft equipment shelf for security and loose connections.

3.9 All electrical wires in cabin area for loose connections or damaged insulation.

3.10 Control rods and walking beam for condition and security.

3.11 Cabin interior for cleanliness and loose foreign objects.

3.12 First aid kit for security, missing or broken seal, and current inspection date.

3.13 Mounting bolts for transverse beams, in roof, for security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14 DAY	AREA NAME AND NO. FUSELAGE (RIGHT SIDE) — 4

4.1 Fuel filler cap for proper locking and condition of seal. Lanyard for security.

4.2 Honeycomb areas for dents, voids, punctures, and other damage.

4.3 Grounding strap for security and condition.

4.4 Battery vents for obstruction, condition, and security.

4.5 Door to ac external power receptacle for condition and security.

4.6 Grounding receptacle for security.

4.7 Aft jacking point for security.

4.8 Screen vent for condition and security.

4.9 Grommet on HF homing antenna for security and condition.

4.10 Radar antennas for damage and security.

4.11 Anticollision light for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14 DAY	AREA NAME AND NO. ENGINE (RIGHT SIDE) — 5

5.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

5.2 Engine oil and fuel lines for security and leakage. Loose or missing identification tape on fuel and oil lines.

5.3 Combustion chamber for cracks and evidence of overheating.

5.4 Fuel control for security and evidence of leaks.

5.5 Starter-generator and electrical leads for security and evidence of overheating.

5.6 Driveshaft coupling for security.

5.7 Exhaust ejector for cracks and security.

5.8 Fuel filter for security and evidence of leaks.

5.9 Engine fairing for cracks, damage, and fit.

5.10 Vortex generators in particle separator for obstruction and damage.

CAUTION

Ensure oil lines do not contact fuel control arm bolt where NG control cable attaches.

5.11 NG control cable and end fitting for security and damage.

5.12 NG control cable mount bracket for security and damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14 DAY	AREA NAME AND NO. AFT FAIRING ASSEMBLY — 6

6.1 Aft fairing assembly for security. Check for loose lines. Open oil tank filler cap and check oil level. Inspect cap for proper locking and condition of seal.

6.2 Oil cooler inlet screen for damage or clogging.

6.3 Scupper and drain line for security.

6.4 For oil standing in scupper.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14 DAY	AREA NAME AND NO. TAILBOOM (RIGHT SIDE) — 7

7.1 General condition of skin for ripples, holes, loose, or popped rivets.

7.2 HF antenna and IFF antenna for security or damage.

7.3 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

7.4 Green position light for cracked lens and security.

7.5 Driveshaft cover for security and damage. Open driveshaft cover.

7.6 FOD.

7.7 Hanger bearings for wear, overheating, lubrication, and security.

7.8 Driveshafts for damage or missing balance weights.

7.9 Flexpacks for separation, damage, and security.

7.10 Vertical stabilizer, antenna couplings, and tail skid for security.

7.11 Bolts in tail rotor control links for damage and security.

7-12 Tail rotor control trunnion for security of control lever attachment and damage.

7.13 Trunnion boot for damage and security.

7.14 Tail rotor gearbox for security. Check oil level.

7.15 Oil filler cap for security.

7.16 Tail cone for security of attachment. Inspect position light for cracked lens and security.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14 DAY	AREA NAME AND NO. TAILBOOM (LEFT SIDE) — 8

8.1 Tail rotor assembly for security. Inspect blades for damage.

8.2 Directional control linkage for security and wear.

8.3 General condition of skin for ripples, holes, loose or popped rivets.

8.4 Driveshaft cover for security and damage. Inspect hinges for cracks.

8.5 Horizontal stabilizer for security, skin damage, and loose or missing rivets and hardware.

8.6 Red position light for cracked lens and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14 DAY	AREA NAME AND NO. AVIONICS AND AFT FUSELAGE (LEFT SIDE) — 9

9.1 Radar antenna for damage and security.

9.2 For hydraulic leaks in directional control components and lines.

9.3 Flight control tubes for security and damage.

9.4 Electrical circuit breakers and connectors for security.

9.5 Avionics and electrical components for security.

9.6 Battery tiedown and connector for security.

9.7 Avionics compartment door and access panels for security.

9.8 Aft fuel cell bulkhead and compartment for punctures, cracks, and voids.

9.9 Check skin for ripples and cracks.

9.10 Check bleed air heater intake for cracks. Inspect grounding point for corrosion.

9.11 Pad on lower step for wear.

9.12 Hinged door of upper step for dents and ease of operation. Inspect drain hole in upper step for obstruction.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14 DAY	AREA NAME AND NO. OIL SYSTEMS (LEFT SIDE) — 10

10.1 Check oil level in sight gage in engine oil tank.

10.2 Flex coupling of tail rotor driveshaft for security and damage.

10.3 First bearing of tail rotor driveshaft for wear, slippage, overheating, and lubrication.

10.4 Check that vents in aft fairing assembly are clear. Inspect aft fairing assembly for security and damage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14 DAY	AREA NAME AND NO. ENGINE (LEFT SIDE) — 11

11.1 Engine preventive maintenance checks and services in Chapter 1 of TM 55-2840-256-23.

11.2 Fuel and oil lines in engine compartment for security and leaks.

11.3 Check ac generator and electrical leads for security, evidence of overheating, and damage.

11.4 All electrical connectors for security.

11.5 Wiring for chafed and broken insulation and damage.

11.6 Drain lines in engine deck for obstructions.

11.7 Combustion chamber for cracks and evidence of overheating.

11.8 Engine mounts for security.

11.9 Tail pipe ejector for cracks, holes, and security. Inspect tail pipe fairing for burrs, cracks, and security.

11.10 Freewheeling unit for security and leakage.

11.11 Engine fairing for cracks, damage, and fit.

11.12 Vortex generators in particle separator for obstructions and damage.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14 DAY	AREA NAME AND NO. ACCESS DOOR AND AVIONICS COMPARTMENT (LEFT SIDE) — 12

12.1 Skin on door for cracks and damage. Inspect latches and hinges for cracks and wear.

12.2 Quick disconnect pins for damage, proper operation, and lanyard for security.

12.3 Door for fit and proper operation. Windows and vents for cleanliness and damage. Inspect condition of weather stripping.

12.4 Bleed air heater for cracks, security of heater bleed air lines and ducting.

12.5 COMSEC units and transponder computer for security.

12.6 UHF high pass filter for security and proper connection.

12.7 RF high pass filter for security and proper connection.

12.8 Fuel tank probe for security and evidence of leakage.

12.9 MCPU unit No. 1 for security in mountings.

12.10 All wiring for chafing and broken insulation. Inspect connectors for security and broken lockwire.

12.11 Inertia reel for security, binding, positive locking, and unlocking. Straps for cuts and fraying. Installation date must be legible and correct.

12.12 Fire extinguisher for security, broken or missing seal, and current inspection date.

12.13 Heater duct for cracks and security.

12.14 Mounting bolts for transverse beams, in roof for security.

12.15 FM coupler housing for security and connection.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14 DAY	AREA NAME AND NO. CREW COMPARTMENT (LEFT SIDE) — 13

13.1 Door hinges for security and wear. Inspect handle, latch, and locking brackets for security and wear.

13.2 Door jettison handle for security and pins for damage and proper safety. Mechanism parts for wear, corrosion, and cracks. Mechanism functionally checked.

13.3 Check door for fit and operation. Window and vents for cleanliness and damage. Check condition of weather stripping.

13.4 Armor plate for cracks, delamination, and security. Check armor latching assembly for security and ease of operation.

13.5 Seat and seat back covers for tears and other damage. Check seat frames for cracks, distortion, and security.

13.6 Seat belts and shoulder harness for cuts and fraying. Installation date must be legible and correct. Retarder springs for proper operation. Attachment fittings for condition and security.

13.7 Crew console for security of panels and damage.

13.8 Boots on cyclic and collective sticks for deterioration and tears.

13.9 Directional control pedals and bellcrank for freedom of movement. Check adjustment for ease of operation.

13.10 Fresh air vents for obstructions and security.

13.11 Motor in fresh air vent tube for security.

13.12 Overhead map light for security.

13.13 Circuit breaker panels on centerpost for security.

13.14 Overhead window for cracks and evidence of leaking water.

13.15 Cyclic controls disconnect assembly for proper operation, cracks, peening of the socket, and other damage.

CAUTION

Assure stud seats properly in socket.

13.16 Collective stick for proper installation and damage. Throttle grip for smooth operation and missing cork material.

"FOD REMINDER"

Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14 DAY	AREA NAME AND NO. PYLON — 14

14.1 Forward cowl and air intake cowl for condition and security.

14.2 Transmission oil filter and lines for security and leaks.

14.3 Check hydraulic actuators and hydraulic lines for evidence of leaks and security. R/H side of helicopter.

14.4 Check oil level in sight glass on hydraulic reservoir.

14.5 Hydraulic reservoir for damage and security. Presence of latch safety pin.

14.6 Check oil level in sight glass on transmission. R/H side of helicopter.

14.7 Particle separator blower motor and duct for security and damage.

14.8 Swashplate assembly and pitch change links for security and lubrication.

14.9 Main rotor blades, hub, and controls for condition and security.

14.10 Enging air inlet bellmouth for damage and obstuction and plenum area for loose objects.

14.11 MMS sight for condition and security. Inspect lens on MMS sight for cracks and dirt.

14.12 FM antennas sealant and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14 DAY	AREA NAME AND NO. ALIGHTING GEAR — 15

15.1 Bolts attaching forward and aft crosstube to fuselage for security. Clamps for damage and security.

15.2 Weight-on-gear switch for security and damage.

15.3 Skid shoes for wear and damage.

15.4 Midpoint doubler for wear and debonding.

15.5 Forward and aft crosstube assemblies and skid tubes for damage.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14 DAY	AREA NAME AND NO. FUSELAGE (BOTTOM SIDE) — 16

16.1 All metal and honeycomb fuselage for damage.

16.2 Blade antennas for sealant and security.

16.3 Fuel sump for security and evidence of leakage.

16.4 Check radar altimeter antenna for damage and security.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14 DAY	AREA NAME AND NO. POWER ON CHECKS

P.1 Exterior lights for operation.

P.2 Landing light for proper operation.

P.3 Pitot heat.

P.4 Defog blower motors.

P.5 Avionics blower.

P.6 Particle separator blower motor.

P.7 Interior lights.

P.8 Crew compartment switches and circuit breakers.

P.9 Operational checks as necessary (MMS, Avionics, etc.). (TM 55-1520-248-10)

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

PROGRESSIVE INSPECTION NO. 14 DAY	AREA NAME AND NO. FINAL INSPECTION

F.1	Ensure that all entries on forms, records, and worksheets have been completed or updated. Initiate new forms, as required.
F.3	Install protective covers and blade tiedowns as required.
F.4	Cabin and cockpit areas for loose equipment and cleanliness.
F.5	Check batteries are disconnected as required.

"FOD REMINDER"
Check work area for tools and parts after completion of maintenance and inspection.

DATE	MODEL	AIRCRAFT SERIAL NUMBER	PPM NUMBER(S)

AREA NO. 1	Nose	Initial	AREA NO. 2	Crew Compartment (Right Side)	Initial
AREA NO. 3	Access Door and Avionics Compartment (Right Side)	Initial	AREA NO. 4	Fuselage (Right Side)	Initial
AREA NO. 5	Engine (Right Side)	Initial	AREA NO. 6	Aft Fairing Assembly	Initial
AREA NO. 7	Tailboom (Right Side)	Initial	AREA NO. 8	Tailboom (Left Side)	Initial
AREA NO. 9	Avionics and Aft Fuselage (Left Side)	Initial	AREA NO. 10	Oil Systems (Left Side)	Initial
AREA NO. 11	Engine (Left Side)	Initial	AREA NO. 12	Access Door and Avionics Compartment (Left Side)	Initial
AREA NO. 13	Crew Compartment (Left Side)	Initial	AREA NO. 14	Pylon	Initial
AREA NO. 15	Alighting Gear	Initial	AREA NO. 16	Fuselage (Bottom Side)	Initial
	Power on Check	Initial		Final Inspection	Initial

PRINTED NAME	SIGNATURE	INITIAL

Figure 6. Signature Sheet

Appendix A

INSPECTION REQUIREMENT MAINTENANCE MANAGEMENT MATRIX

REQUIREMENT NO	PPM INSPECTION NO																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1.1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1.2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1.3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1.4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1.6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1.7		X																												
1.8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1.9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1.10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1.11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1.12		X				X				X				X				X				X				X				X
1.13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1.14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1.15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1.16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1.17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1.18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1.19		X																												
2.1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.13		X					X					X					X					X					X			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

REQUIREMENT NO	PPM INSPECTION NO																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
2.14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.17	X															X														
2.18	X															X														
2.19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.24			X																											
2.25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.28	X															X														
2.29	X															X														
2.30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2.31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3.1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3.2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3.3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3.4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3.6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3.7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3.8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3.9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3.10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3.11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3.12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3.13					X																									
3.14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3.15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Appendix A
INSPECTION REQUIREMENT MAINTENANCE MANAGEMENT MATRIX

REQUIREMENT NO	PPM INSPECTION																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
3 16					X															X										
3 17					X															X										
3 18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3 19					X															X										
3 20					X															X										
3 21					X															X										
3 22					X															X										
3 23					X															X										
3 24					X															X										
4 1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4 2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4 3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4 4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4 5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4 6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4 7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4 8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4 9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4 10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4 11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4 12								X															X							
4 13								X															X							
4 14								X															X							
4 15								X															X							
4 16								X															X							
4 17							X																							
4 18		X							X							X							X							X
4 19		X							X							X							X							X
5 1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DELETED																														
5 3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5 4										X															X					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

REQUIREMENT NO	PPM INSPECTION NO																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
5 5										X															X					
5 6										X															X					
5 7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5 8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5 9										X															X					
5 10										X															X					
5 11										X															X					
5 12										X															X					
5 13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5 14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5 15						X																								
5 16						X															X									
5 17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5 18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5 19						X															X									
5 20						X															X									
5 21						X															X									
5 22						X															X									
5 23						X															X									
5 24						X															X									
5 25						X															X									
5 26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5 27						X																								
5 28						X															X									
5 29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5 30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5 31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5 32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5 33		X															X													
6 1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6 2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6 3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6 4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Appendix A

INSPECTION REQUIREMENT MAINTENANCE MANAGEMENT MATRIX

REQUIREMENT	PPM INSPECTION NO																													
NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
7.1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7.2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7.3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7.6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7.7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7.8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7.9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7.10	X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
7.11	X				X				X				X				X				X				X				X	
7.12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7.13				X															X											
7.14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7.15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7.16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8.1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8.2				X															X											
8.3				X															X											
8.4				X															X											
8.5				X															X											
8.6				X															X											
8.7				X															X											
8.8				X															X											
8.9				X															X											
8.10				X					X					X					X					X					X	
8.11				X															X											
8.12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8.13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8.14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8.15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8.16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8.17																			X											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

REQUIREMENT	PPM INSPECTION NO																													
NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
8.18																			X											
8.19	X							X							X							X							X	
8.20	X							X							X							X							X	
8.21	X							X							X							X							X	
8.22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8.23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8.24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8.25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8.26				X															X											
8.27				X															X											
8.28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8.29				X					X					X					X					X					X	
9.1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9.2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9.3																		X												
9.4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9.5			X															X												
9.6			X															X												
9.7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9.8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9.9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9.10		X				X				X				X				X				X				X				X
9.11																		X												
9.12			X															X												
9.13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9.14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9.15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9.16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9.17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9.18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9.19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Appendix A

INSPECTION REQUIREMENT MAINTENANCE MANAGEMENT MATRIX

REQUIREMENT	PPM INSPECTION NO																													
NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
10.1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10.2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10.3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10.4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10.5		X															X													
10.6	X							X							X							X							X	
11.1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11.2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11.3		X															X													
11.4		X															X													
11.5		X															X													
11.6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11.7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11.8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11.9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11.10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11.11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11.12		X															X													
11.13																	X													
11.14																	X													
11.15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11.16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11.17		X															X													
11.18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11.19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11.20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11.21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11.22	X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
12.1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12.2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12.3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12.4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

REQUIREMENT	PPM INSPECTION NO																													
NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
12.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12.6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12.7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12.8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12.9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12.10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12.11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12.12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12.13		X							X							X							X							X
12.14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12.15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12.16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12.17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13.1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13.2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13.3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13.4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13.6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13.7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13.8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13.9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13.10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13.11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13.12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13.13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13.14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13.15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13.16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14.1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14.2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14.3												X															X			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Appendix A
INSPECTION REQUIREMENT MAINTENANCE MANAGEMENT MATRIX

REQUIREMENT NO	PPM INSPECTION NO																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
14 4												X															X			
14 5												X															X			
14 6												X															X			
14 7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14 8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14 9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14 10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14 11												X															X			
14 12			X					X					X					X					X					X		
14 13	X							X							X							X							X	
14 14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14 15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14 16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14 17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14 18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14 19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14 20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14 21												X															X			
14 22												X															X			
14 23												X															X			
14 24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Deleted																														
14 26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14 27												X															X			
14 28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14 29												X															X			
14 30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14 31												X															X			
14 32												X																		
14 33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14 34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14 35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14 36												X															X			
14 37		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

REQUIREMENT NO	PPM INSPECTION NO																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
14 38		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X
14 39		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X
14 40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14 41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14 42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14 43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14 44												X															X			
14 45		X															X													
14 46		X															X													
14 47		X															X													
14 48		X															X													
14 49		X															X													
15 1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15 2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15 3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15 4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15 5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15 6																										X				
15 7											X															X				
15 8																										X				
16 1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16 2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16 3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16 4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16 5													X															X		
16 6													X															X		
16 7													X															X		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Appendix A

INSPECTION REQUIREMENT MAINTENANCE MANAGEMENT MATRIX

REQUIREMENT	PPM INSPECTION NO																													
NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
P 1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
P 2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
P 3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
P 4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
P 5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
P 6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
P 7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
P 8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
P 9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
P 10															X															X
P 11															X															X
P 12															X															X
P 13															X															X
P 14															X															X
P 15															X															X
F 1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DELETED																														
F 3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
F 4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
F 5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
F 6							X															X								
F 7															X															X
F 8										X										X										X
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

By Order of the Secretary of the Army:

CARL E. VUONO
General, United States Army
Chief of Staff

Official:

R. L. DILWORTH
Brigadier General, United States Army
The Adjutant General

DISTRIBUTION:
To be distributed in accordance with DA Form 12-31, AVUM and AVIM Maintenance requirements for OH-58D Helicopter, Observation.

☆U.S. GOVERNMENT PRINTING OFFICE : 1989 O - 242-451 (7073)

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

THEN. . JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT. FOLD IT AND DROP IT IN THE MAIL!

SOMETHING WRONG WITH THIS PUBLICATION?

FROM (PRINT YOUR UNIT'S COMPLETE ADDRESS)
PFC JOHN DOE
CO A, 3d ENGINEER BN
FT. LEONARDWOOD, MO 63108

DATE SENT

PUBLICATION NUMBER TM 55-1520-248-PPM	PUBLICATION DATE 12 Jan 88	PUBLICATION TITLE Progressive Phase Maintenance Inspection Checklist

BE EXACT PIN-POINT WHERE IT IS

PAGE NO	PARA-GRAPH	FIGURE NO	TABLE NO	IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:
6	2-1 a			In line 6 of paragraph 2-1a the manual states the engine has 6 Cylinders. The engine on my set only has 4 Cylinders. Change the manual to show 4 Cylinders.
81		4-3		Callout 16 on figure 4-3 is pointing at a bolt. In key to figure 4-3, item 16 is called a shim - Please correct one or the other.
125	line 20			I ordered a gasket, item 19 on figure B-16 by NSN 2910-00-762-3001. I got a gasket but it doesn't fit. Supply says I got what I ordered, so the NSN is wrong. Please give me a good NSN

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER
JOHN DOE, PFC (268) 317-7111

SIGN HERE John Doe
JOHN DOE

TEAR ALONG PERFORATED LINE

DA FORM 1 JUL 79 2028-2

PREVIOUS EDITIONS ARE OBSOLETE.

DRSTS-M Overprint 1, 1 Nov 80

P.S.--IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS

REVERSE OF DA FORM 2028-2 Reverse of DRSTS-M Overprint 2,
1 Nov 80

FILL IN YOUR
UNIT'S ADDRESS

FOLD BACK

DEPARTMENT OF THE ARMY

____

____

TEAR ALONG PERFORATED LINE

COMMANDER
US ARMY AVIATION SYSTEMS COMMAND
ATTN: AMSAV-MPSD
4300 GOODFELLOW BOULEVARD
ST. LOUIS, MO 63120-1798

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

THEN . . JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT. FOLD IT AND DROP IT IN THE MAIL!

SOMETHING WRONG WITH THIS PUBLICATION?

FROM (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER TM 55-1520-248-PPM	PUBLICATION DATE 12 Jan 88	PUBLICATION TITLE Progressive Phase Maintenance Inspection Checklist

BE EXACT PIN-POINT WHERE IT IS

PAGE NO	PARA-GRAPH	FIGURE NO	TABLE NO	IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

PRINTED NAME GRADE OR TITLE AND TELEPHONE NUMBER

SIGN HERE

DA FORM 1 JUL 79 2028-2

PREVIOUS EDITIONS ARE OBSOLETE.

DRSTS-M Overprint 2, 1 Nov 80.

P.S.--IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS

REVERSE OF DA FORM 2028-2 Reverse of DRSTS-M Overprint 2,
1 Nov 80

FILL IN YOUR UNIT'S ADDRESS

FOLD BACK

DEPARTMENT OF THE ARMY

____

____

TEAR ALONG PERFORATED LINE

COMMANDER
US ARMY AVIATION SYSTEMS COMMAND
ATTN: AMSAV-MPSD
4300 GOODFELLOW BOULEVARD
ST. LOUIS, MO 63120-1798

TEAR ALONG PERFORATED LINE

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

THEN. . JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT. FOLD IT AND DROP IT IN THE MAIL!

SOMETHING WRONG WITH THIS PUBLICATION?

FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER	PUBLICATION DATE	PUBLICATION TITLE
TM 55-1520-248-PPM	12 Jan 88	Progressive Phase Maintenance Inspection Checklist

BE EXACT PIN-POINT WHERE IT IS				IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:
PAGE NO	PARA-GRAPH	FIGURE NO	TABLE NO	

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER	SIGN HERE

DA FORM 1 JUL 79 2028-2

PREVIOUS EDITIONS ARE OBSOLETE.

DRSTS-M Overprint 2, 1 Nov 80.

P.S.--IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS

REVERSE OF DA FORM 2028-2 Reverse of DRSTS-M Overprint 2,
1 Nov 80

FILL IN YOUR
UNIT'S ADDRESS

FOLD BACK

DEPARTMENT OF THE ARMY

____

____

COMMANDER
US ARMY AVIATION SYSTEMS COMMAND
ATTN: AMSAV-MPSD
4300 GOODFELLOW BOULEVARD
ST. LOUIS, MO 63120-1798

TEAR ALONG PERFORATED LINE

TEAR ALONG PERFORATED LINE

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

SOMETHING WRONG WITH THIS PUBLICATION?

THEN . . . JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL!

FROM (PRINT YOUR UNIT'S COMPLETE ADDRESS)

DATE SENT

PUBLICATION NUMBER	PUBLICATION DATE	PUBLICATION TITLE
TM 55-1520-248-PPM	12 Jan 88	Progressive Phase Maintenance Inspection Checklist

BE EXACT . . . PIN-POINT WHERE IT IS				IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:
PAGE NO	PARA-GRAPH	FIGURE NO	TABLE NO	

PRINTED NAME, GRADE OR TITLE, AND TELEPHONE NUMBER	SIGN HERE

DA FORM 1 JUL 79 2028-2

PREVIOUS EDITIONS ARE OBSOLETE

DRSTS-M Overprint 2, 1 Nov 80.

P.S.--IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS

REVERSE OF DA FORM 2028-2 Reverse of DRSTS-M Overprint 2,
1 Nov 80

FILL IN YOUR
UNIT'S ADDRESS

FOLD BACK

DEPARTMENT OF THE ARMY

____

____

COMMANDER
US ARMY AVIATION SYSTEMS COMMAND
ATTN: AMSAV-MPSD
4300 GOODFELLOW BOULEVARD
ST. LOUIS, MO 63120-1798

TEAR ALONG PERFORATED LINE

The Metric System and Equivalents

Linear Measure

1 centimeter = 10 millimeters = .39 inch
1 decimeter = 10 centimeters = 3.94 inches
1 meter = 10 decimeters = 39.37 inches
1 dekameter = 10 meters = 32.8 feet
1 hectometer = 10 dekameters = 328.08 feet
1 kilometer = 10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain
1 decigram = 10 centigrams = 1.54 grains
1 gram = 10 decigram = .035 ounce
1 dekagram = 10 grams = .35 ounce
1 hectogram = 10 dekagrams = 3.52 ounces
1 kilogram = 10 hectograms = 2.2 pounds
1 quintal = 100 kilograms = 220.46 pounds
1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

1 centiliter = 10 milliters = .34 fl. ounce
1 deciliter = 10 centiliters = 3.38 fl. ounces
1 liter = 10 deciliters = 33.81 fl. ounces
1 dekaliter = 10 liters = 2.64 gallons
1 hectoliter = 10 dekaliters = 26.42 gallons
1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Approximate Conversion Factors

To change	*To*	*Multiply by*	*To change*	*To*	*Multiply by*
inches	centimeters	2.540	ounce-inches	newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29,573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	newton-meters	1.356	metric tons	short tons	1.102
pound-inches	newton-meters	.11296			

Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C